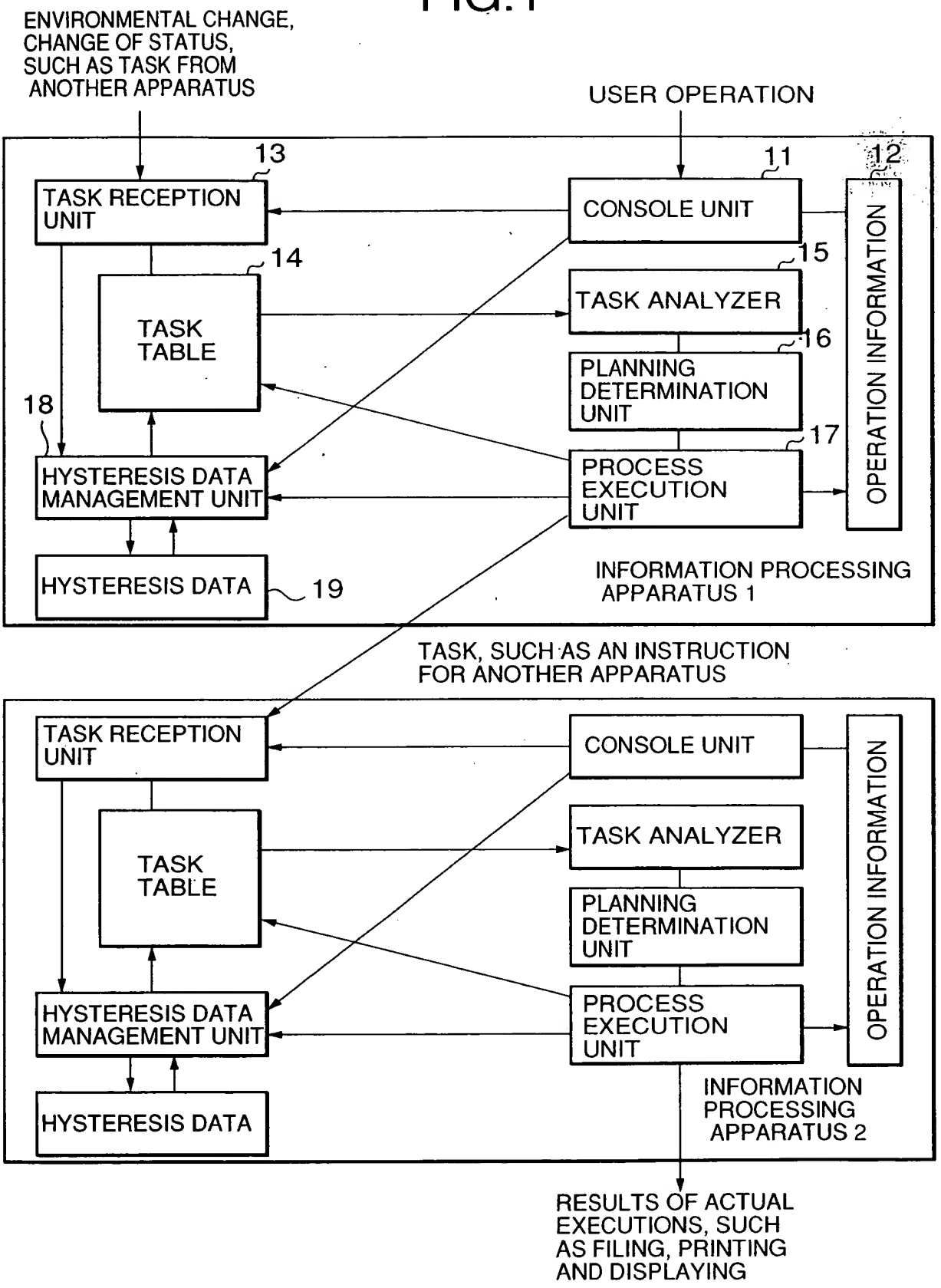
APPROVED BY DRAFTSMAN
O.G. FIG.
CLASS SUBCLASS

FIG.1



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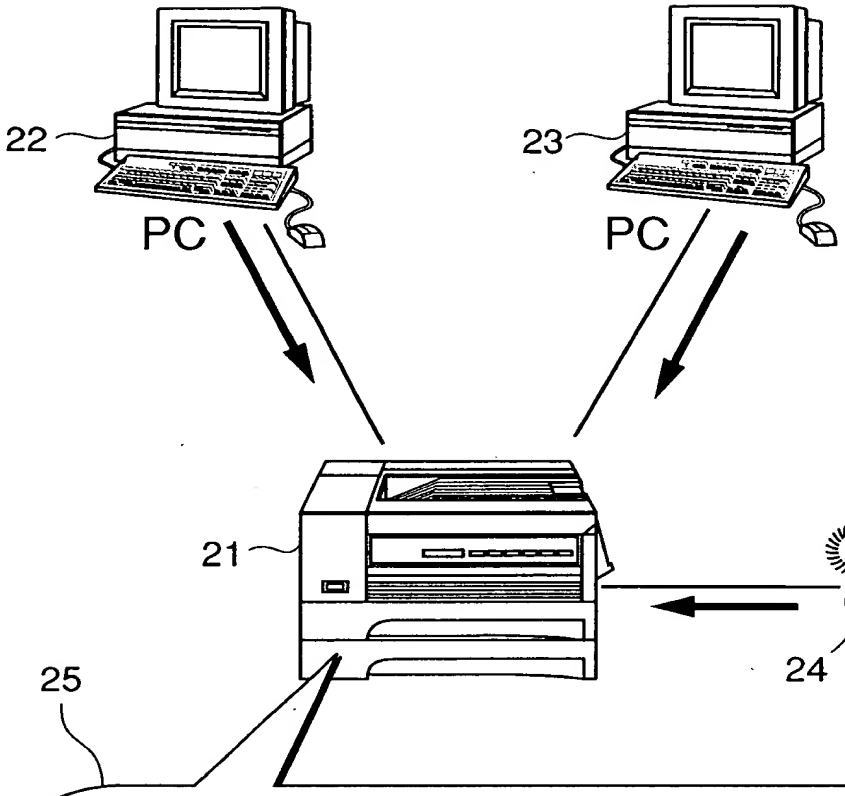
APPROVED
CLASS SUBCLASS
DRAFTSMAN

FIG.2



History

NO	PRECEDING	SUCCEEDING	TIME	ACTION	ACTOR	OBJECT	OTHERS
1	HEAD	2	2/5 9:00:00	OPERATE	OPERATOR	「START」	CONSOLE UNIT 11
2	1	3	2/5 9:00:02	ANALYZE	PRINTER 21	NO 1	
3	2	TAIL	2/5 9:00:03	START	PRINTER 21	PRINTER 21	
4	HEAD	5	2/5 9:10:00	DETECT	PRINTER 21	EXIST PC 22	PC22
5	4	6	2/5 9:10:01	ANALYZE	PRINTER 21	NO 4	
6	5	TAIL	2/5 9:10:02	REMAKE	PRINTER 21	KNOWLEDGE	
7	HEAD	8	2/5 9:30:00	OPERATE	OPERATOR	「PRINT"abc.doc" FROM PC 22」	CONSOLE UNIT 11
8	8	9	2/5 9:30:02	ANALYZE	PRINTER 21	NO 7	
9	9	10	2/5 9:30:03	PRINT	PRINTER 21	PULL OBJ"abc.doc" FROM PC 22	
10	10	11	2/5 9:30:04	PULL	PRINTER 21	"abc.doc"	PC22
11	11	TAIL	2/5 9:30:11	PRINT	PRINTER 21	"abc.doc"	

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FIG.3

PRECEDING NO	SUCCEEDING HEAD	SUCCEEDING	TIME	ACTION	ACTOR	OBJECT	OTHERS	
1	HEAD	2	2/5 9:00:00	OPERATE	OPERATOR	「START」	CONSOLE UNIT 11	301
2	1	3	2/5 9:00:02	ANALYZE	PRINTER 21	NO 1		302
3	2	TAIL	2/5 9:00:03	START	PRINTER 21	PRINTER 21		303
4	HEAD	5	2/5 9:10:00	DETECT	PRINTER 21	EXIST PC 22	PC22	304
5	4	6	2/5 9:10:01	ANALYZE	PRINTER 21	NO 4		305
6	5	TAIL	2/5 9:10:02	REMAKE	PRINTER 21	KNOWLEDGE		306
7	HEAD	8	2/5 9:30:00	OPERATE	OPERATOR	「PRINT"abc.doc" FROM PC 22」	CONSOLE UNIT 11	307
8	7	9	2/5 9:30:02	ANALYZE	PRINTER 21	NO 7		308
9	8	10	2/5 9:30:03	PRINT	PRINTER 21	PULL OBJ"abc.doc" FROM PC 22		309
10	9	11	2/5 9:30:04	PULL	PRINTER 21	"abc.doc"	PC22	310
11	10	TAIL	2/5 9:30:11	PRINT	PRINTER 21	"abc.doc"		311

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ORIGINAL HYSTERESIS

FIG.4A

	ACTIVATION CONDITION	TASK CONTENTS
3	NO PROCESSING FOR PREDETERMINED PERIOD OF TIME	MAKE (OBJECT:IDLE PERIOD OF TIME TASK)

41

ORIGINAL HYSTERESIS

FIG.4B

	ACTIVATION CONDITION	TASK CONTENTS
7	UNCONDITIONAL	ANALYZE(OBJECT:RECEIVED DATA ⌈PRINT"abc.doc"FROM PC 22⌋)
3	NO PROCESSING FOR PREDETERMINED PERIOD OF TIME	MAKE (OBJECT:IDLE PERIOD OF TIME TASK)

42

ORIGINAL HYSTERESIS

FIG.4C

	ACTIVATION CONDITION	TASK CONTENTS
8	UNCONDITIONAL	PRINT(OBJECT:"abc.doc" =PULL(ACTOR:A OBJECT:<abc.doc> IOBJECT:PC28))
3	NO PROCESSING FOR PREDETERMINED PERIOD OF TIME	MAKE (OBJECT:IDLE PERIOD OF TIME TASK)

43

ORIGINAL HYSTERESIS

FIG.4D

	ACTIVATION CONDITION	TASK CONTENTS
9	UNCONDITIONAL	PULL(ACTOR:A OBJECT:<abc.doc> LOBJECT:(PC22))
8	UNCONDITIONAL	PRINT(OBJECT:<abc.doc> =PULL)
3	NO PROCESSING FOR PREDETERMINED PERIOD OF TIME	MAKE (OBJECT:IDLE PERIOD OF TIME TASK)

44

45

ORIGINAL HYSTERESIS

FIG.4E

	ACTIVATION CONDITION	TASK CONTENTS
8	UNCONDITIONAL	PRINT(OBJECT:<abc.doc> =PULL)
3	NO PROCESSING FOR PREDETERMINED PERIOD OF TIME	MAKE (OBJECT:IDLE PERIOD OF TIME TASK)

46

ORIGINAL HYSTERESIS

FIG.4F

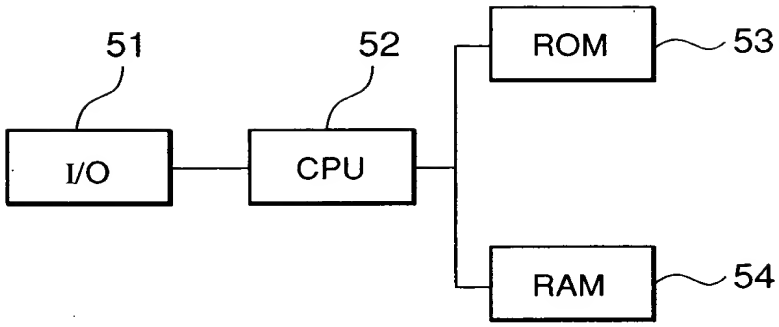
	ACTIVATION CONDITION	TASK CONTENTS
3	NO PROCESSING FOR PREDETERMINED PERIOD OF TIME	MAKE (OBJECT:IDLE PERIOD OF TIME TASK)

47

EP 0 536 478 B1

APPROVED
O.G. FIG.
CLASS SUBCLASS
DRAFTSMAN

FIG.5



EP 0 952 549 A2

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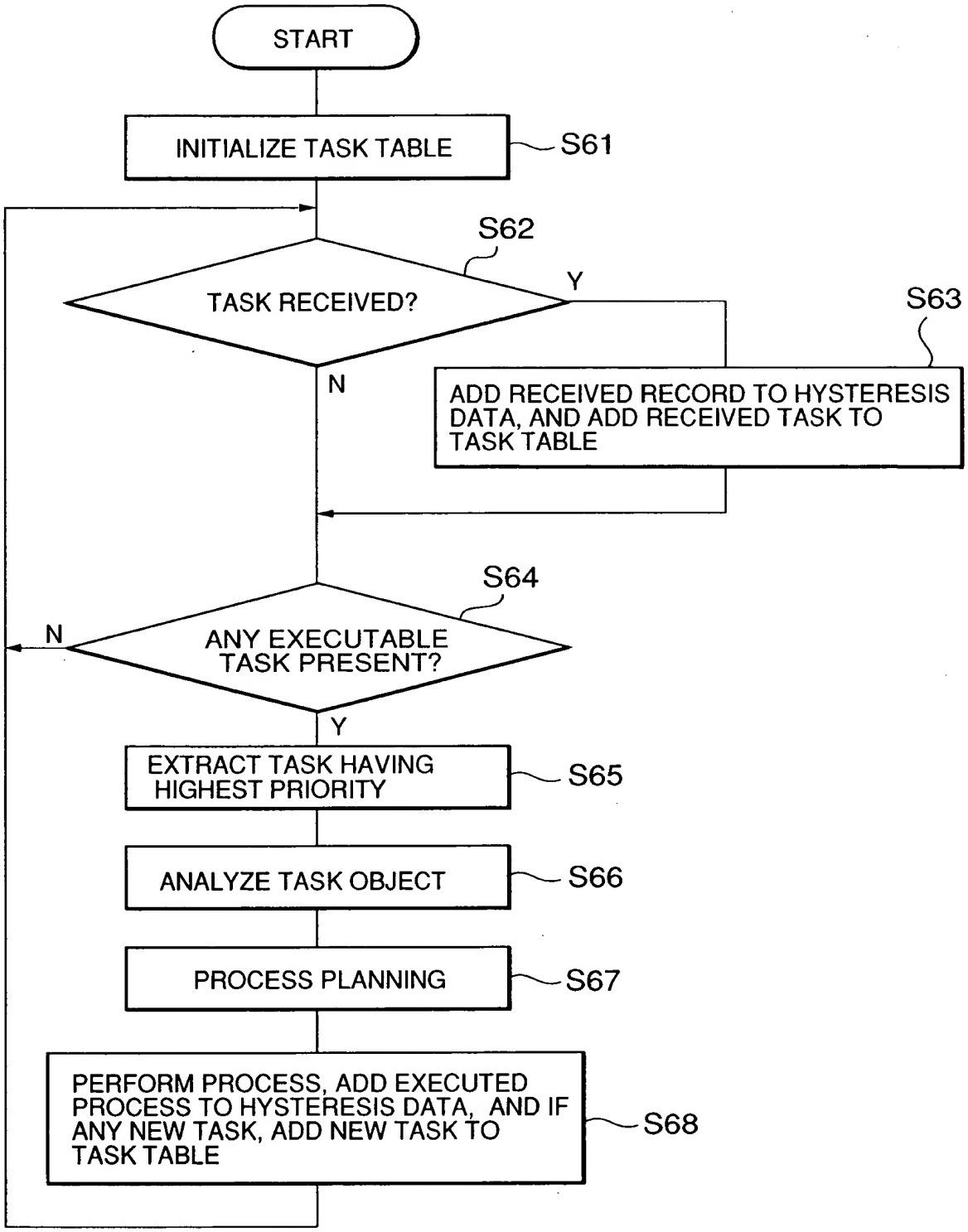
FIG.6



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APPROVED
DRAFTSMAN

FIG.7

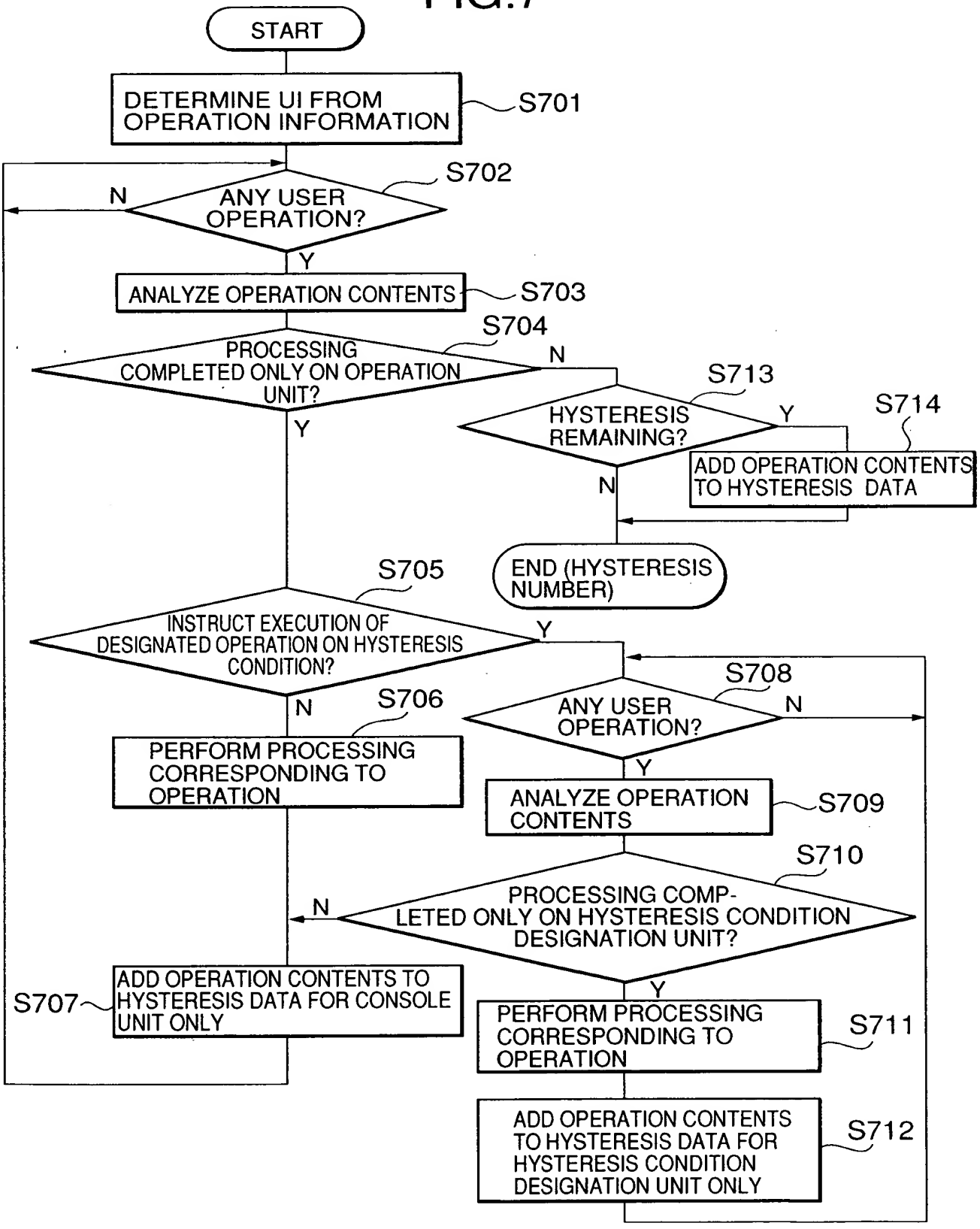

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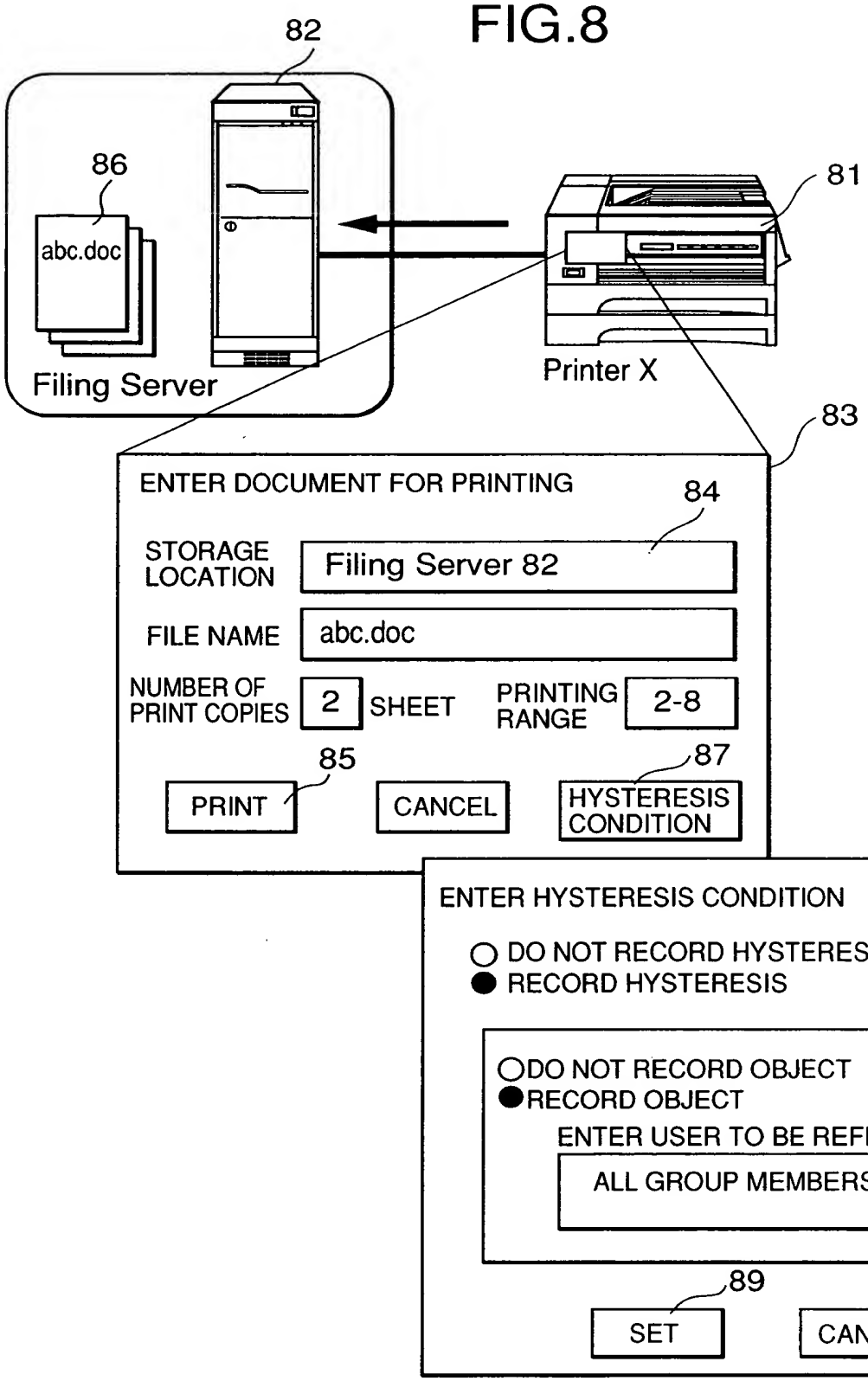
FIG.8



09/534,369 - 03/23/00

APPROVED
O.G. FIG.
CLASS SUBCLASS
DRAFTSMAN

FIG.9

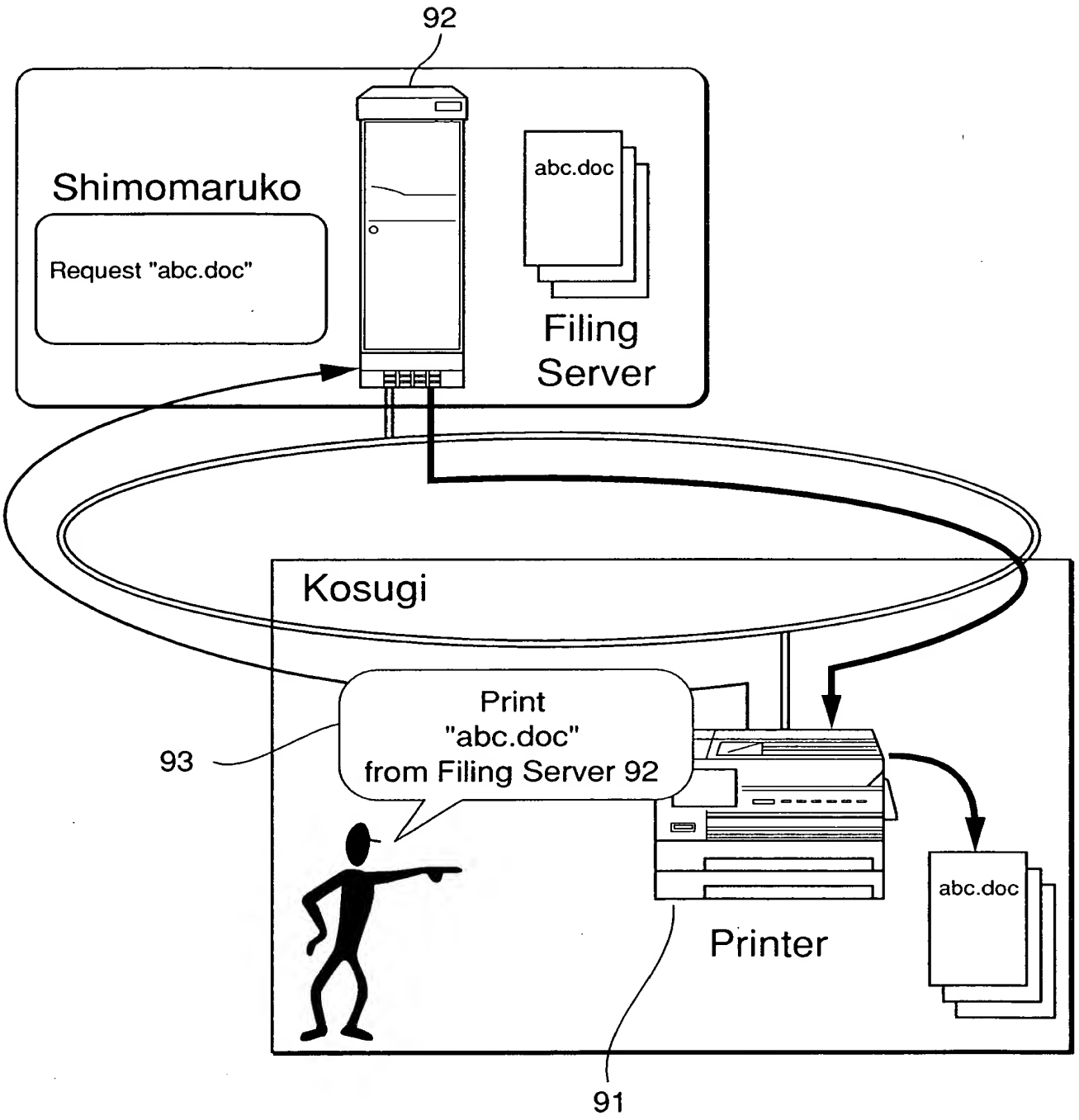


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FIG.10

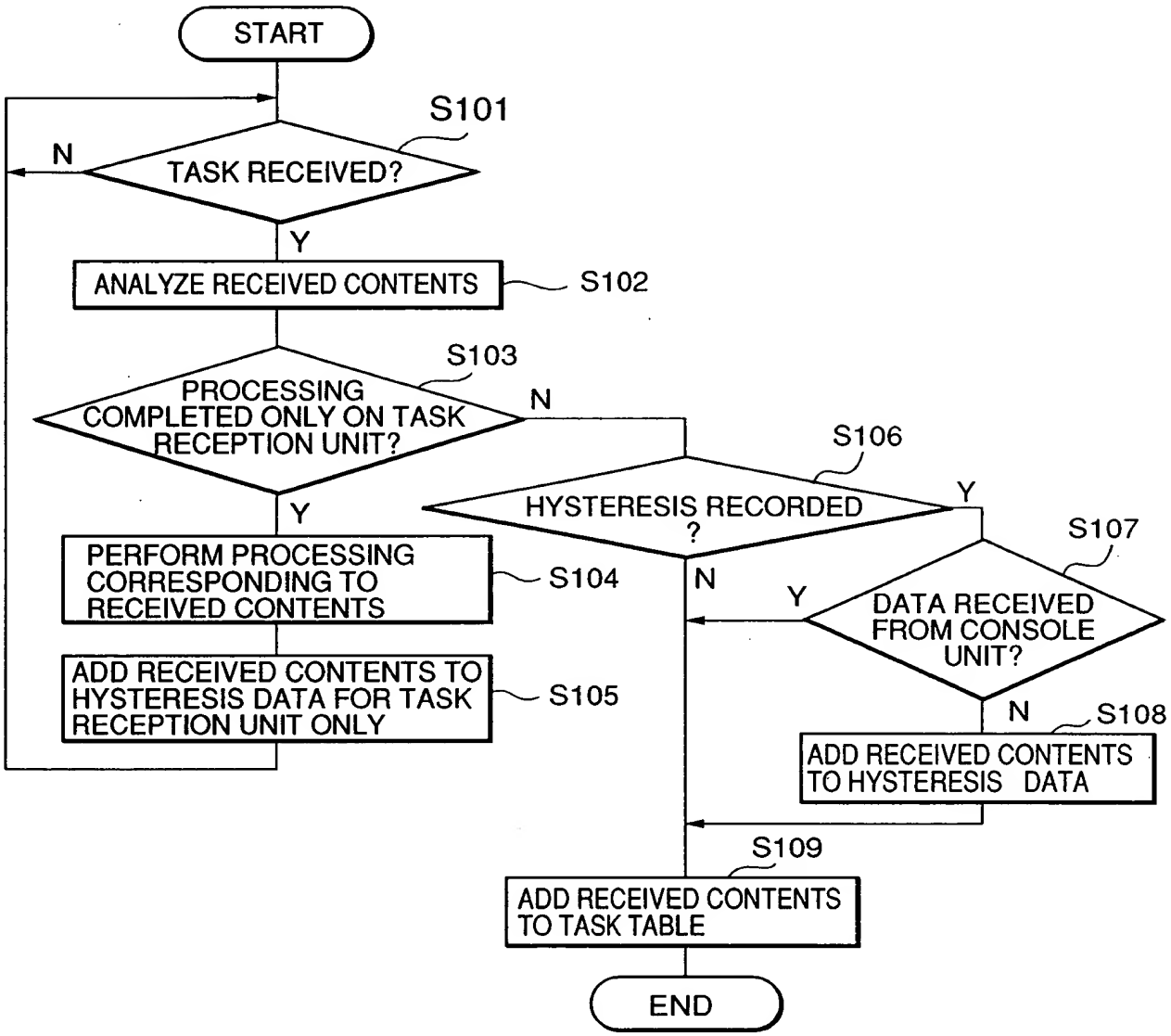

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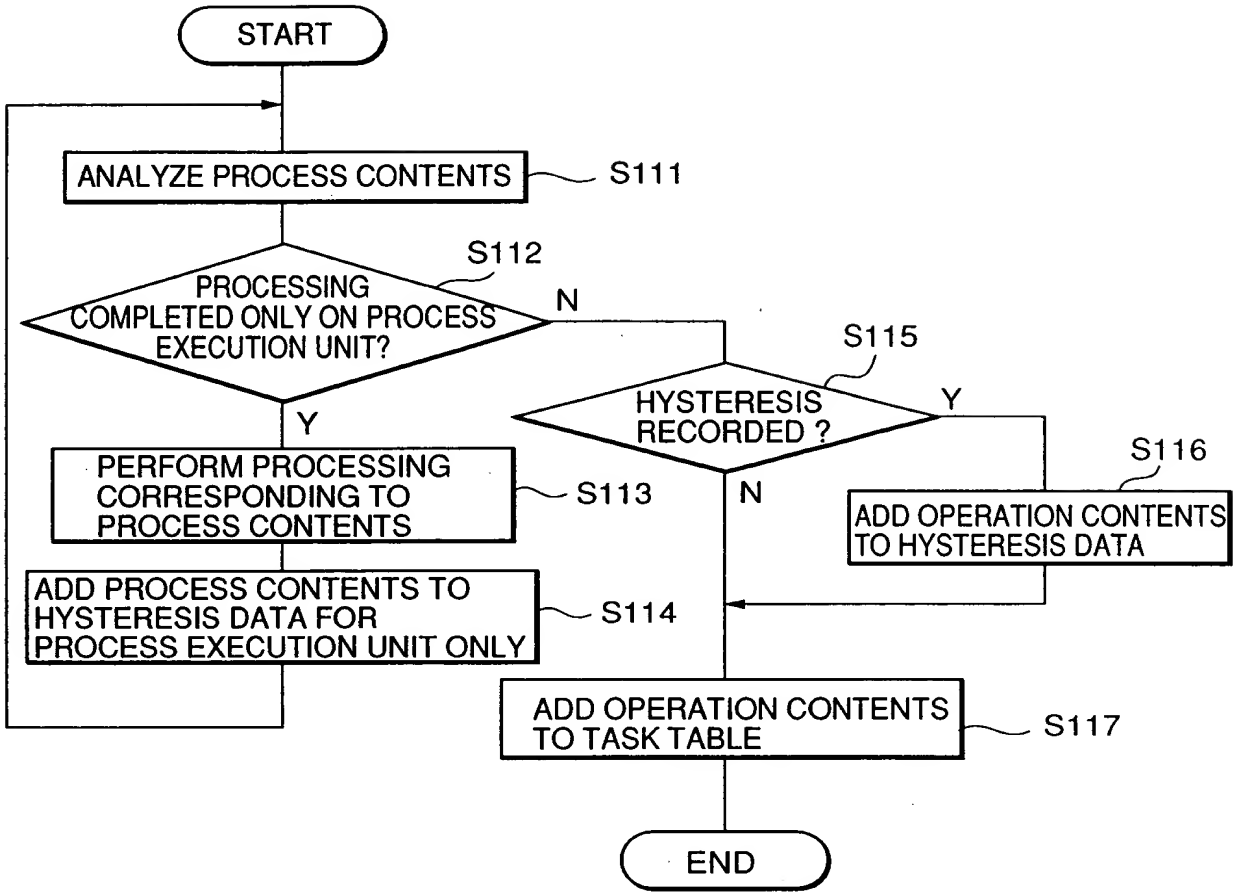
FIG.11



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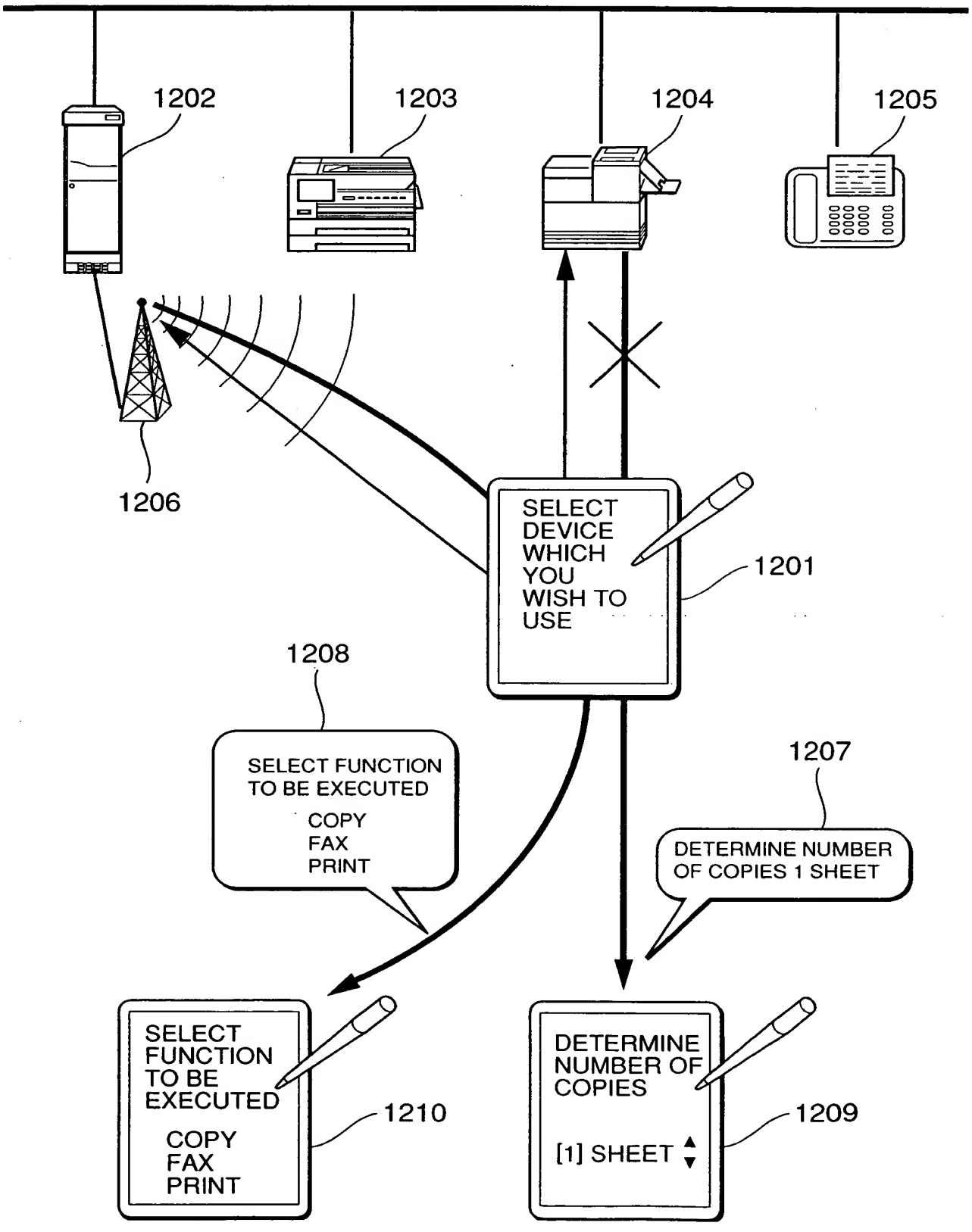
BY
DRAFTSMAN

FIG.12



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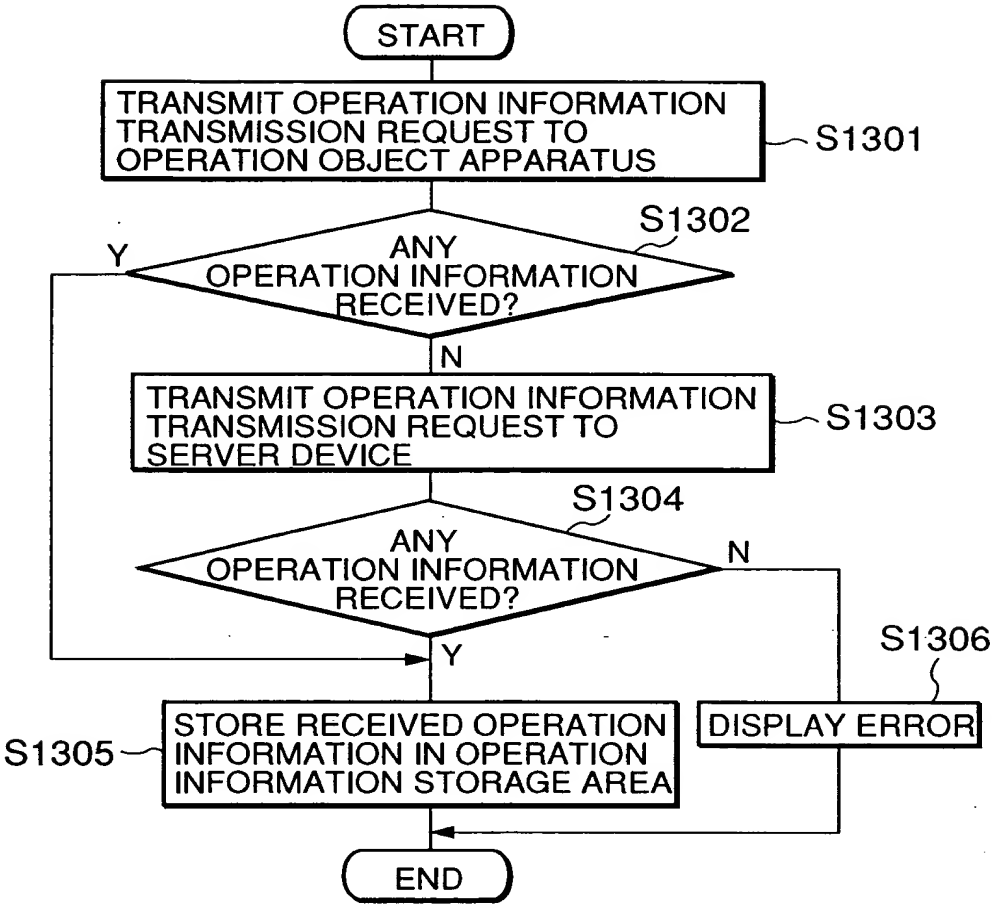
APPROVED FOR PUBLICATION

FIG.13



09/936,340 Jan 07, 2004

APPR
DRAFT

FIG.14A

PROCESS	CONTENTS
INITIAL DISPLAY	DETERMINE NUMBER OF COPIES
COPY COUNT DESIGNATION OPERATION PROCESS	[ ] SHEET (INITIAL VALUE=1,]

FIG.14B

PROCESS	CONTENTS
INITIAL DISPLAY	SELECT FUNCTION TO BE EXECUTED
FUNCTION DESIGNATION OPERATION PROCESS	COPY, FAX, PRINT

FIG.14C

PROCESS	CONTENTS
INITIAL DISPLAY	SELECT DESTINATION
DESTINATION DESIGNATION OPERATION PROCESS	A CO. MR. a, B CO. MR. b, C CO. MR. c

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APPROVED

FIG.15

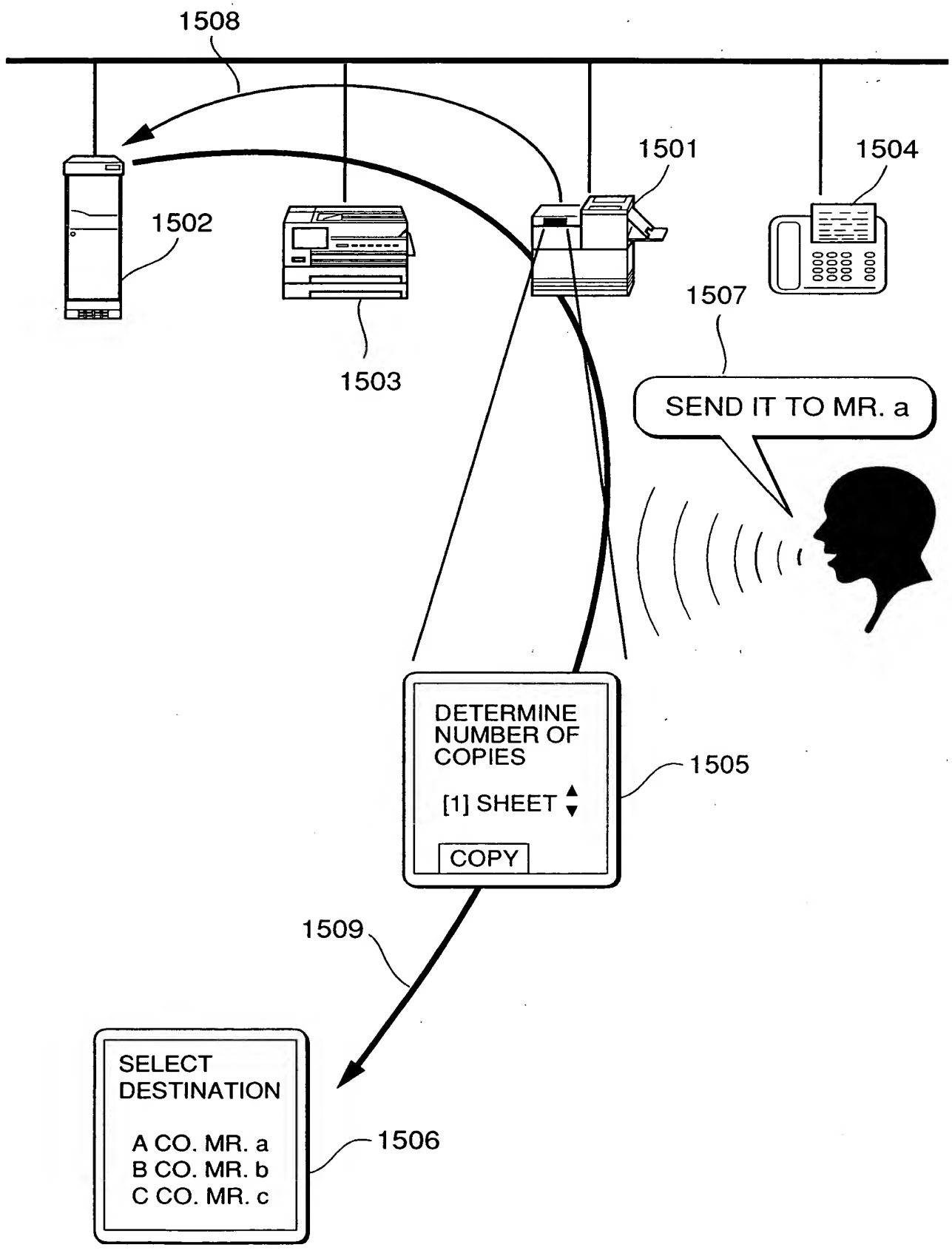

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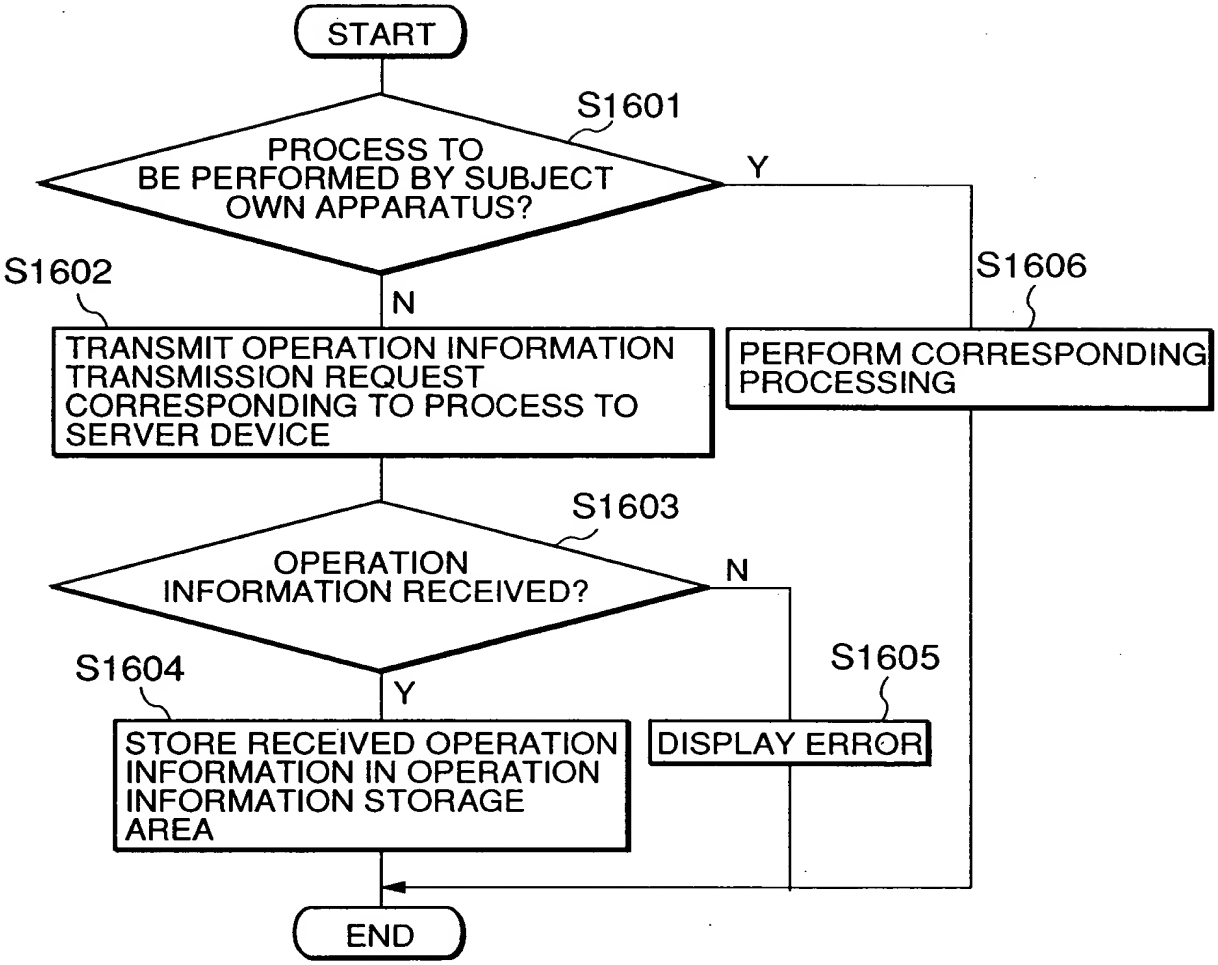
FIG.16



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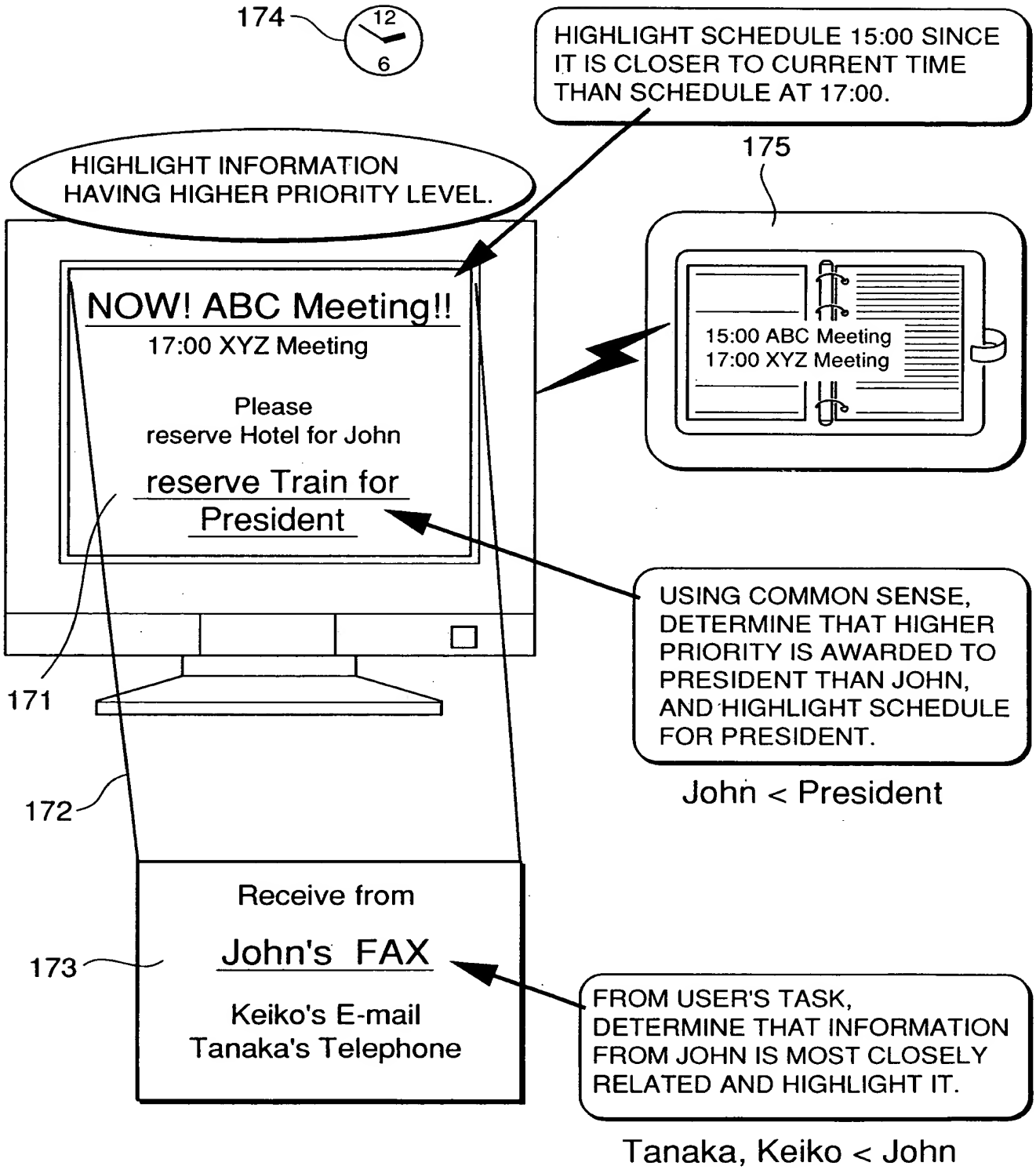
APPROVED
DRAWING

FIG.17



EP 0 836 150 A2

C.G. FIG.
CLASS SUBCLASS

FIG.18

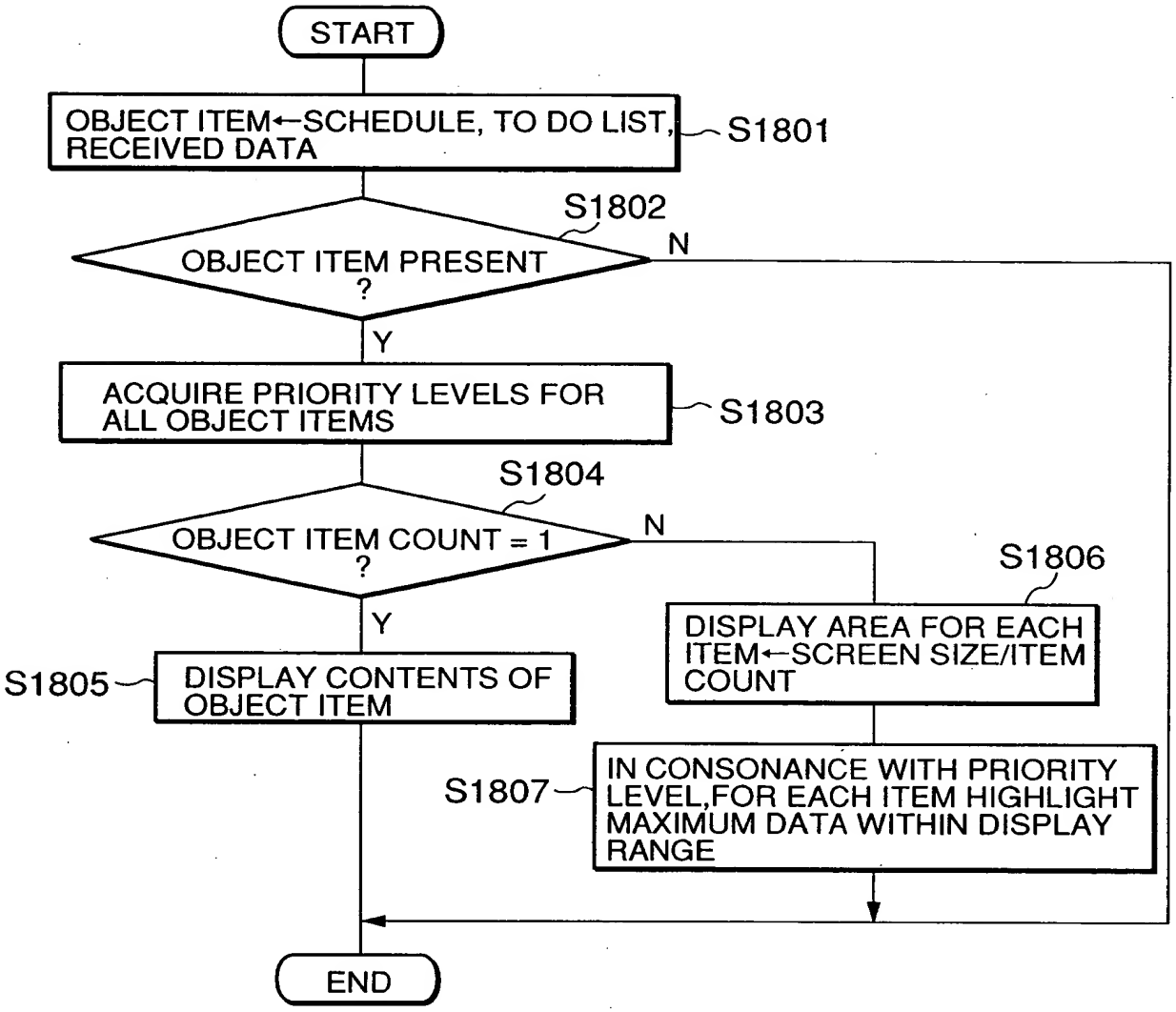


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FIG.19A

TYPE	CONTENTS	PRIORITY
SCHEDULE	SCHEDULE 214	
SCHEDULE	SCHEDULE 215	
SCHEDULE	SCHEDULE 216	
SCHEDULE	SCHEDULE 217	
SCHEDULE	SCHEDULE 218	
TASK	TASK 264	
TASK	TASK 265	
TASK	TASK 266	
RECEIVED DATA	FAX 277	
RECEIVED DATA	E-mail 278	
RECEIVED DATA	TELEPHONE 279	

FIG.19B

TYPE	CONTENTS	PRIORITY	SELECTED BY USER	URGENCY	PERSON	RELATION	
SCHEDULE	SCHEDULE 214	13	5	2	3	3	1901
SCHEDULE	SCHEDULE 215	12	3	3	3	3	1902
SCHEDULE	SCHEDULE 216	13	3	4	3	3	1903
SCHEDULE	SCHEDULE 217	15	5	4	3	3	1904
SCHEDULE	SCHEDULE 218	14	3	5	3	3	1905
TASK	TASK 264	17	3	6	5	3	1906
TASK	TASK 265	12	3	6	0	3	1907
TASK	TASK 266	20	5	7	5	3	1908
RECEIVED DATA	FAX 277	12	3	4	5	0	1909
RECEIVED DATA	E-mail 278	15	3	4	5	3	1910
RECEIVED DATA	TELEPHONE 279	15	3	4	5	3	1911

8652E0" 8hE24h060

APPROVED

FIG.20

SCHEDULE PRIORITY	TASK PRIORITY	ARRIVAL INFORMATION PRIORITY	DISPLAY MEANS
3 OR LESS	3 OR LESS	3 OR LESS	DISPLAY COLOR = RED, BLINK, VOICE, 20 POINT
6 OR LESS	6 OR LESS	6 OR LESS	DISPLAY COLOR = RED, BLINK, BEEP, 20 POINT
9 OR LESS	9 OR LESS	9 OR LESS	DISPLAY COLOR = RED, BLINK, 20 POINT
12 OR LESS	12 OR LESS	12 OR LESS	DISPLAY COLOR = RED, 20 POINT
13 OR LESS	15 OR LESS	15 OR LESS	DISPLAY COLOR = BLACK, 16 POINT
	18 OR LESS	18 OR LESS	DISPLAY COLOR = BLACK, 14 POINT
14 OR MORE	19 OR MORE	19 OR MORE	NO DISPLAY

APPROVED
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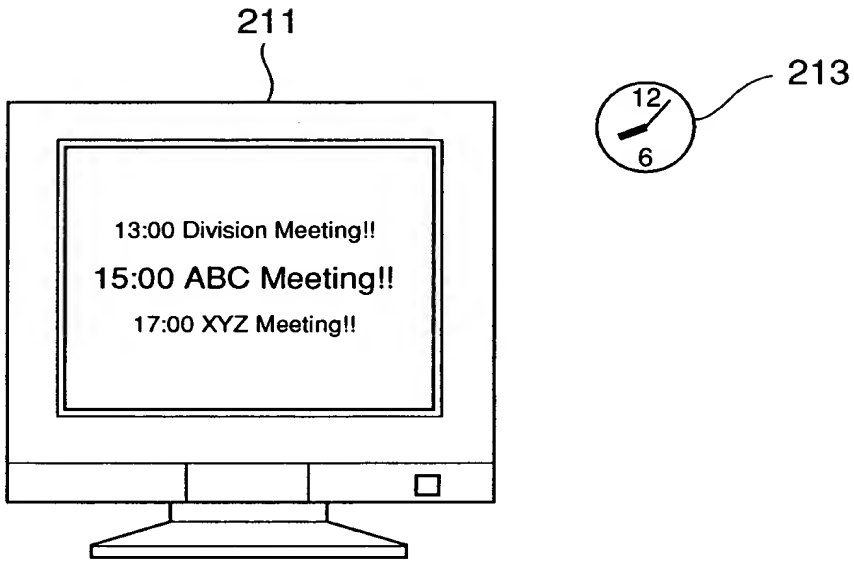
FIG.21



212

SCHEDULE

	START	END	CONTENTS	LOCATION	PRIORITY
214	3/3 13:00	14:00	DIVISION MEETING	OFFICE ROOM	5
215	3/3 15:00	17:00	ABC Meeting	31 MEETING ROOM	3
216	3/3 17:00	18:00	XYZ Meeting	77 MEETING ROOM	3
217	3/3 19:00	21:00	Dinner	Party Room	5
218	3/4 13:00	14:00	DEF Meeting	32 MEETING ROOM	3

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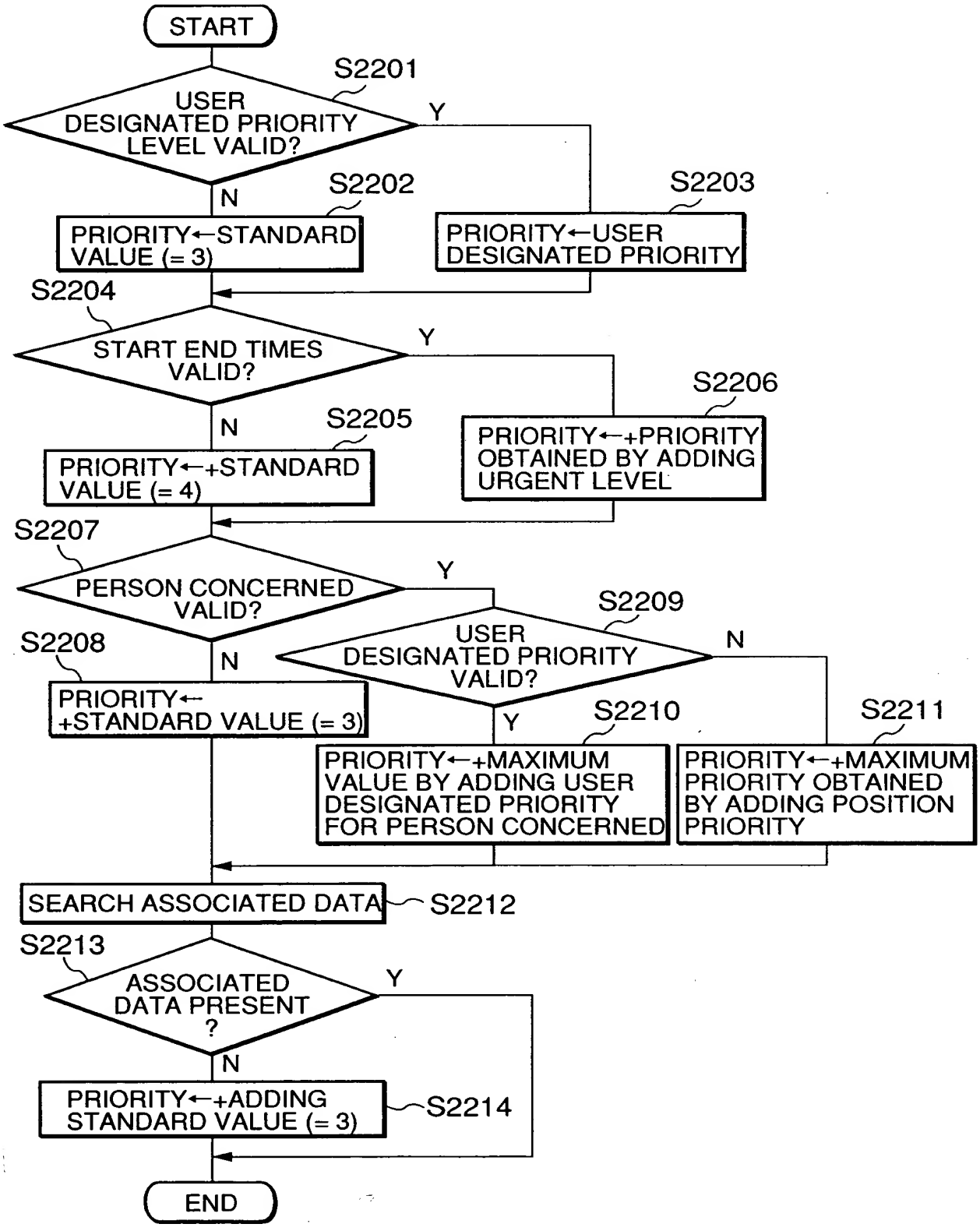
O.G. FIG.
CLASS
SUBCLASS

FIG.22



EP 0 854 430 A2

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FIG.23

URGENCY	PRIORITY
MORE THAN A WEEK BEFORE START	7
MORE THAN 3 DAYS BEFORE START	6
MORE THAN 1 DAY BEFORE START	5
MORE THAN 3 HOURS BEFORE START	4
MORE THAN 1 HOUR BEFORE START	3
MORE THAN 5 MINUTES BEFORE START	2
5 MINUTES BEFORE AND AFTER START	1
BEFORE END	1
LESS THAN 1 HOUR AFTER END	2
LESS THAN 3 HOURS AFTER END	3
WITHIN 1 DAY AFTER END	4
LESS THAN 3 DAYS AFTER END	5
WITHIN A WEEK AFTER END	6
ON AND AFTER A WEEK AFTER END	7

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FIG.24

POSITION • POST • RELATION	PRIORITY
CHAIRMAN OF BOARD	0
PRESIDENT	0
DIRECTOR	1
HEAD OF DEPARTMENT	2
SECTION CHIEF	3
CHIEF CLERK	3
CHIEF OFFICIAL	4
COWORKER	5
CLIENT	1
COOPERATIVE CO.	2
PURCHASER	5
FAMILY	6

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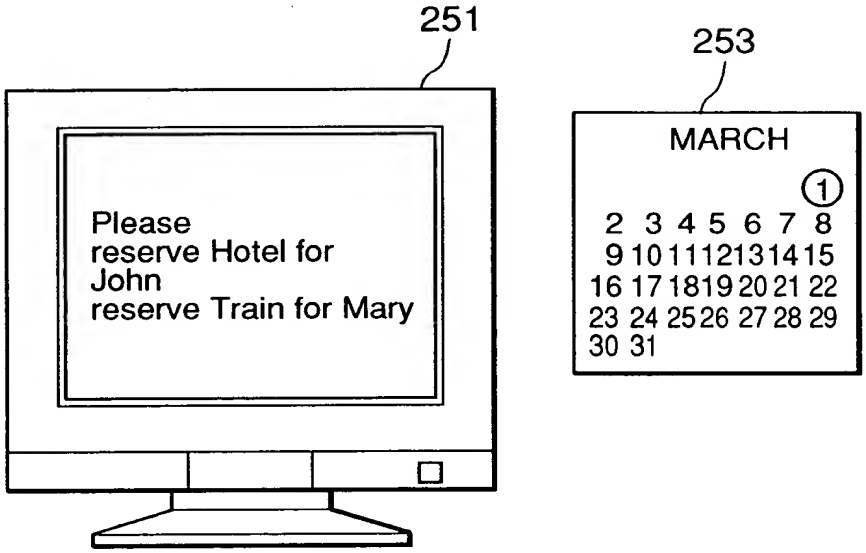
FIG.25



TASK 252

	TERM	CONTENTS	PERSONS CONCERNED	PRIORITY
254	3/4 18 : 00	reserve Hotel	John	3
255	3/4 18 : 00	reserve Train	Mary	3
256	3/8 19 : 00	check Progress	Mary	5

PERSON 257

PERSON	PRIORITY	
John	3	258
Mary	5	259

09/534,050

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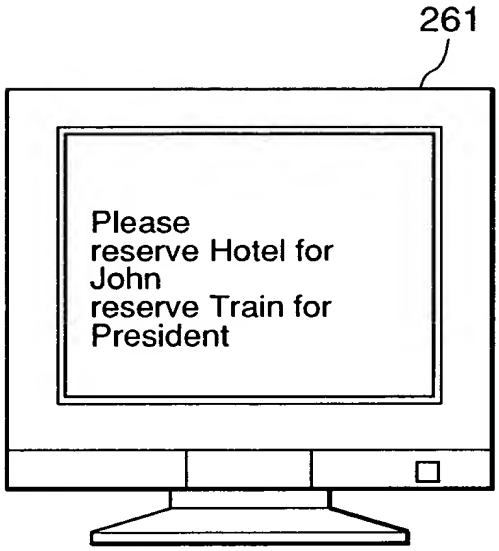
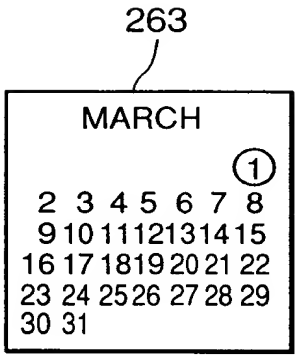
DRAFTS

FIG.26





TASK 262

	TERM	CONTENTS	PERSONS CONCERNED	PRIORITY
264	3/4 18 : 00	reserve Hotel	John	3
265	3/4 18 : 00	reserve Train	President	3
266	3/8 19 : 00	check Progress	Mary	5

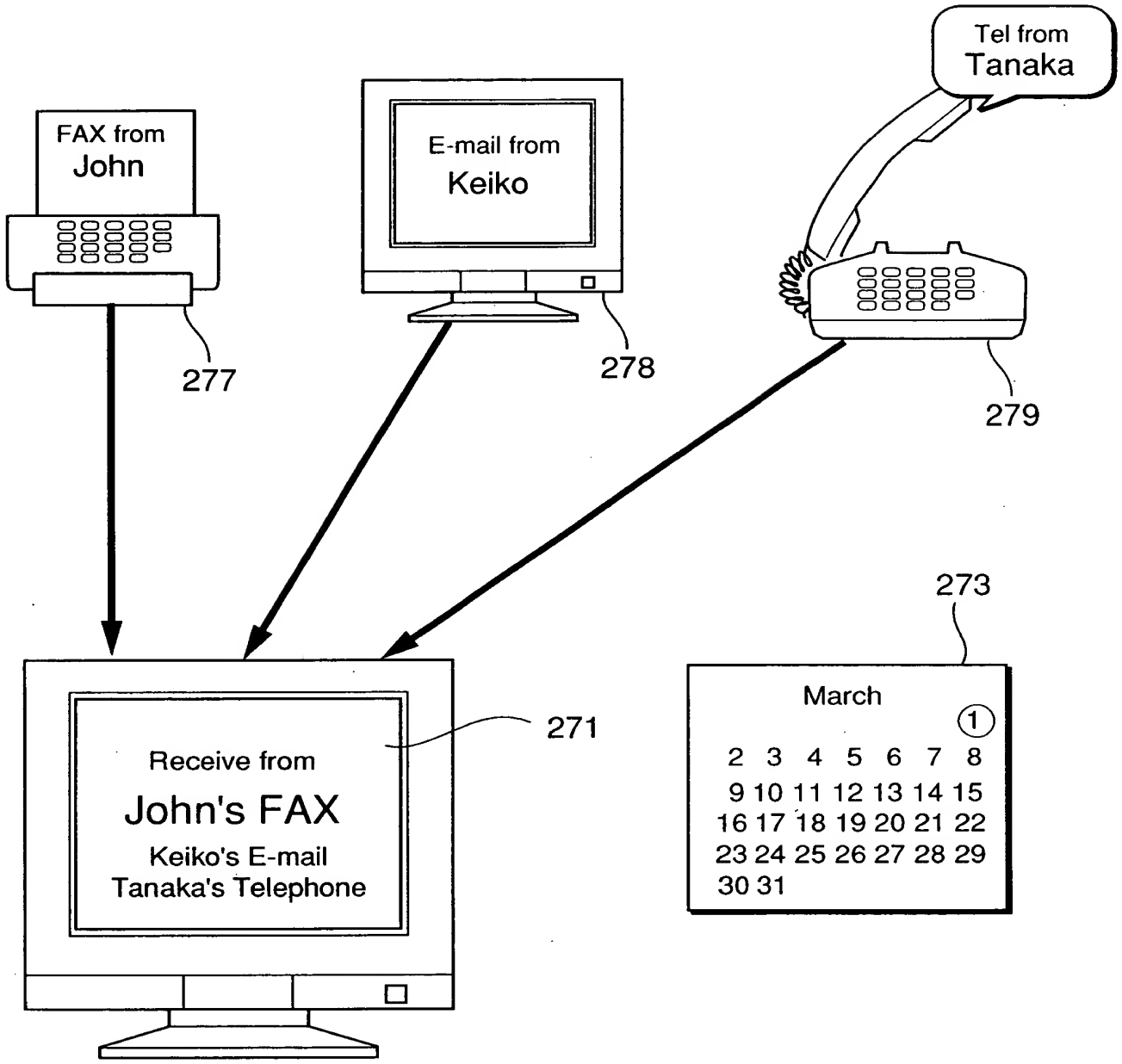
PERSON 267

PERSON	PRIORITY	
President	1	268
Coworker	5	269

US 6,526,382 B1

APPROVED
O.G. FIG.
CLASS SUBCLASS
DRAFTSMAN

FIG.27



TASK 272

	TERM	CONTENTS	PERSONS CONCERNED	PRIORITY
274	3/4 18:00	reserve Hotel	John	3
275	3/4 18:00	reserve Train	Mary	3
276	3/8 19:00	check Progress	Mary	5

EP 0 795 843 A2

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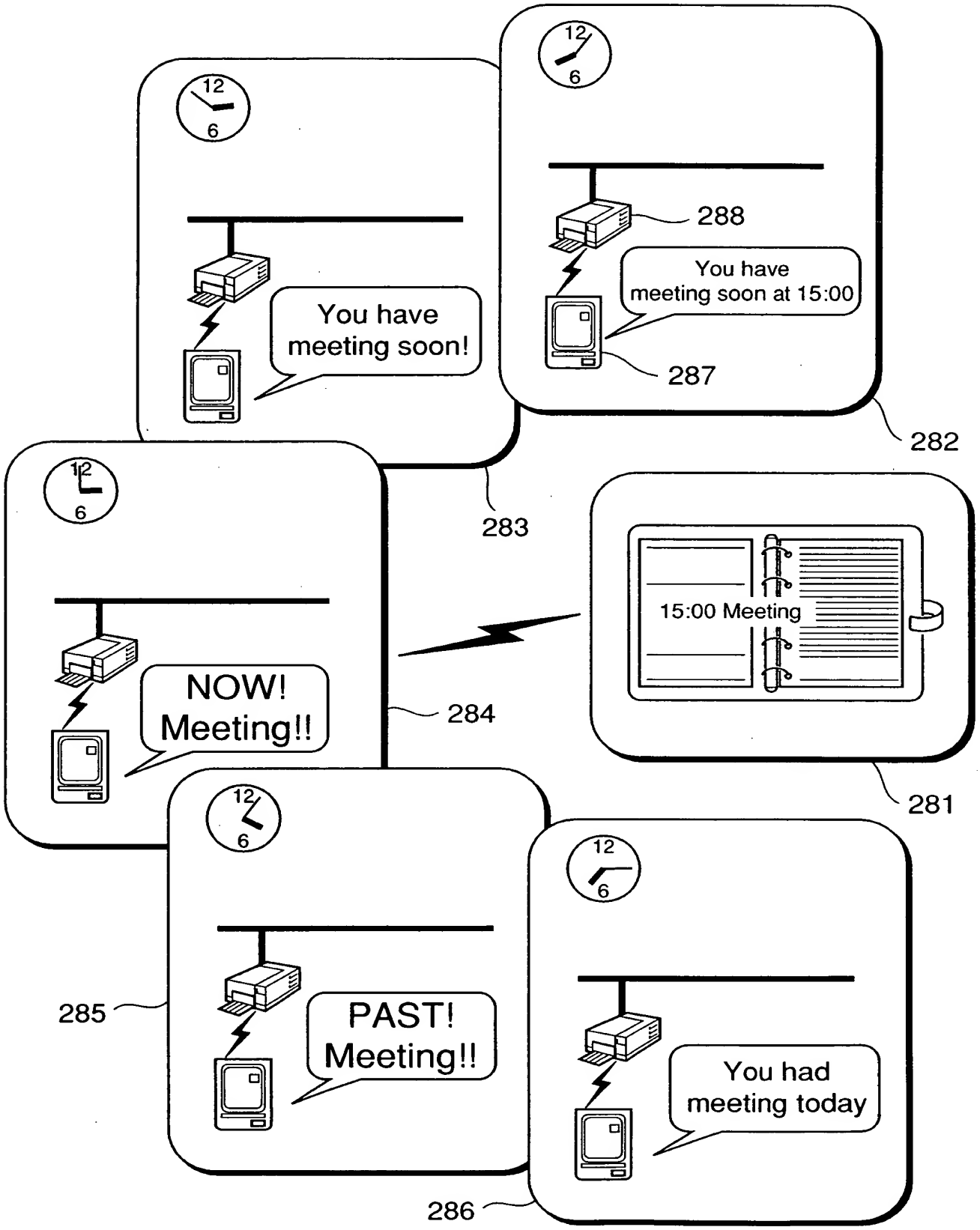
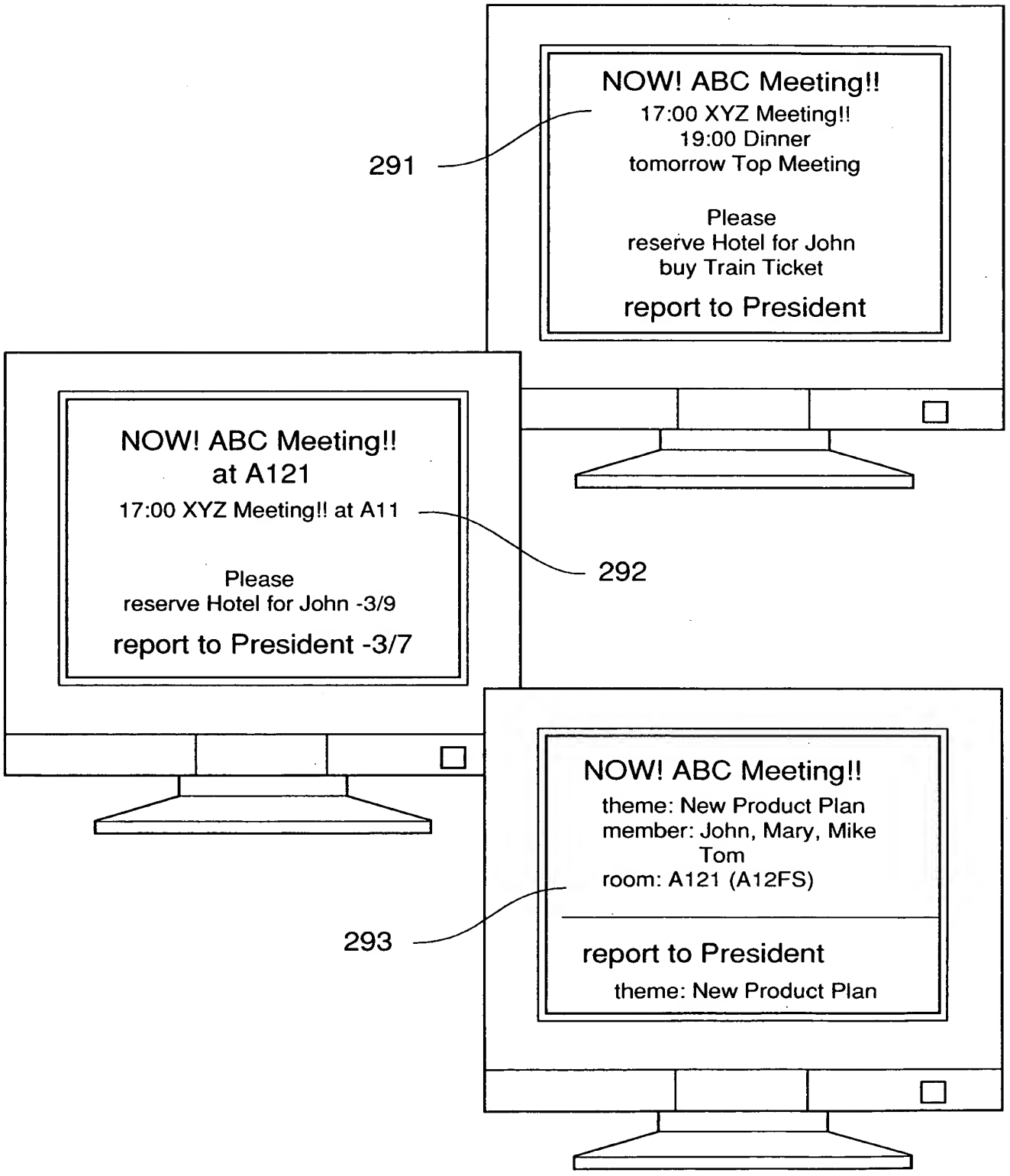
FIG.28



EP 1 357 488 A2

APPROVED
DRAWING

FIG.29



0950+3845+0950

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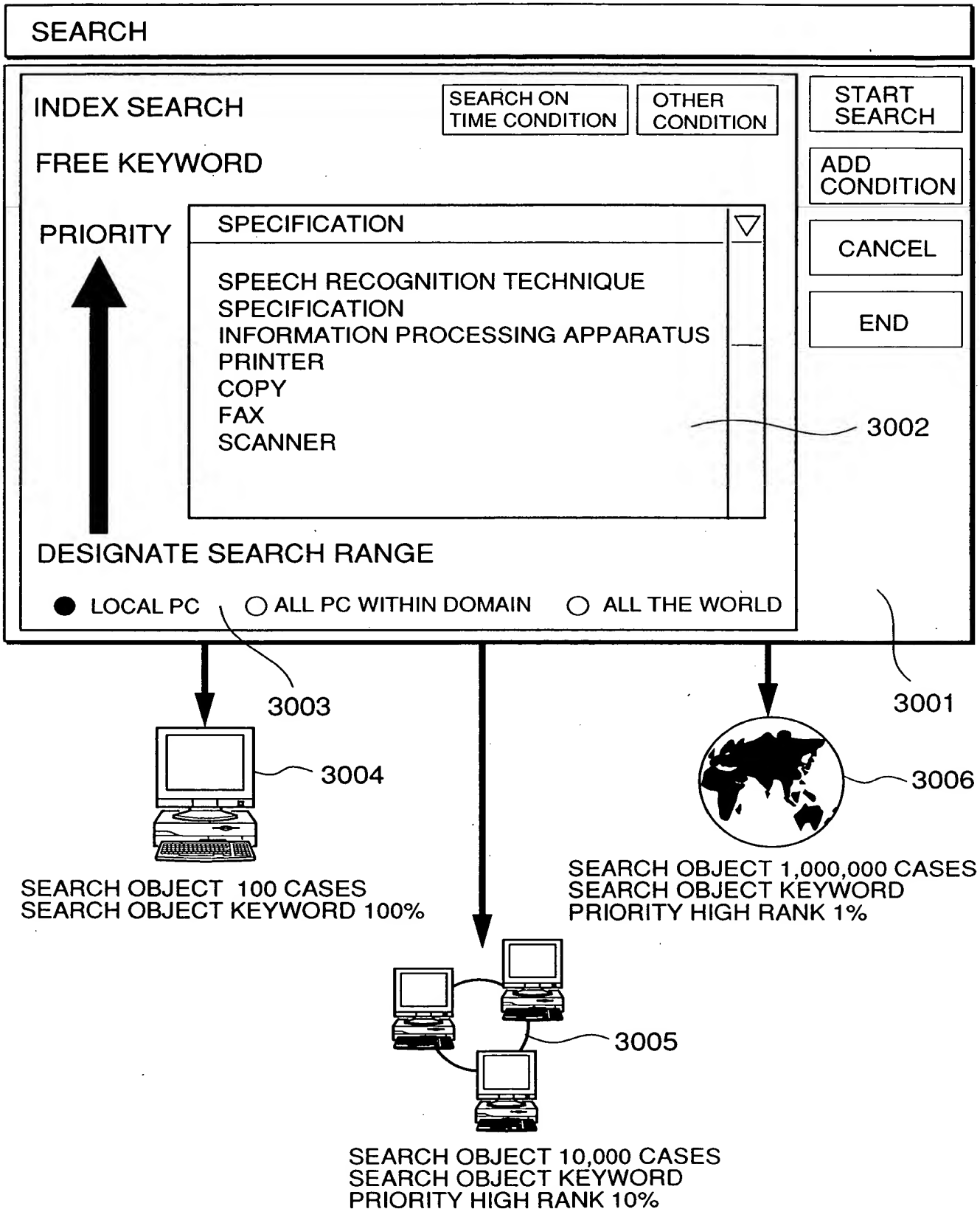
BY
DRAFTSMAN
CLASS SUBCLASS

FIG.30



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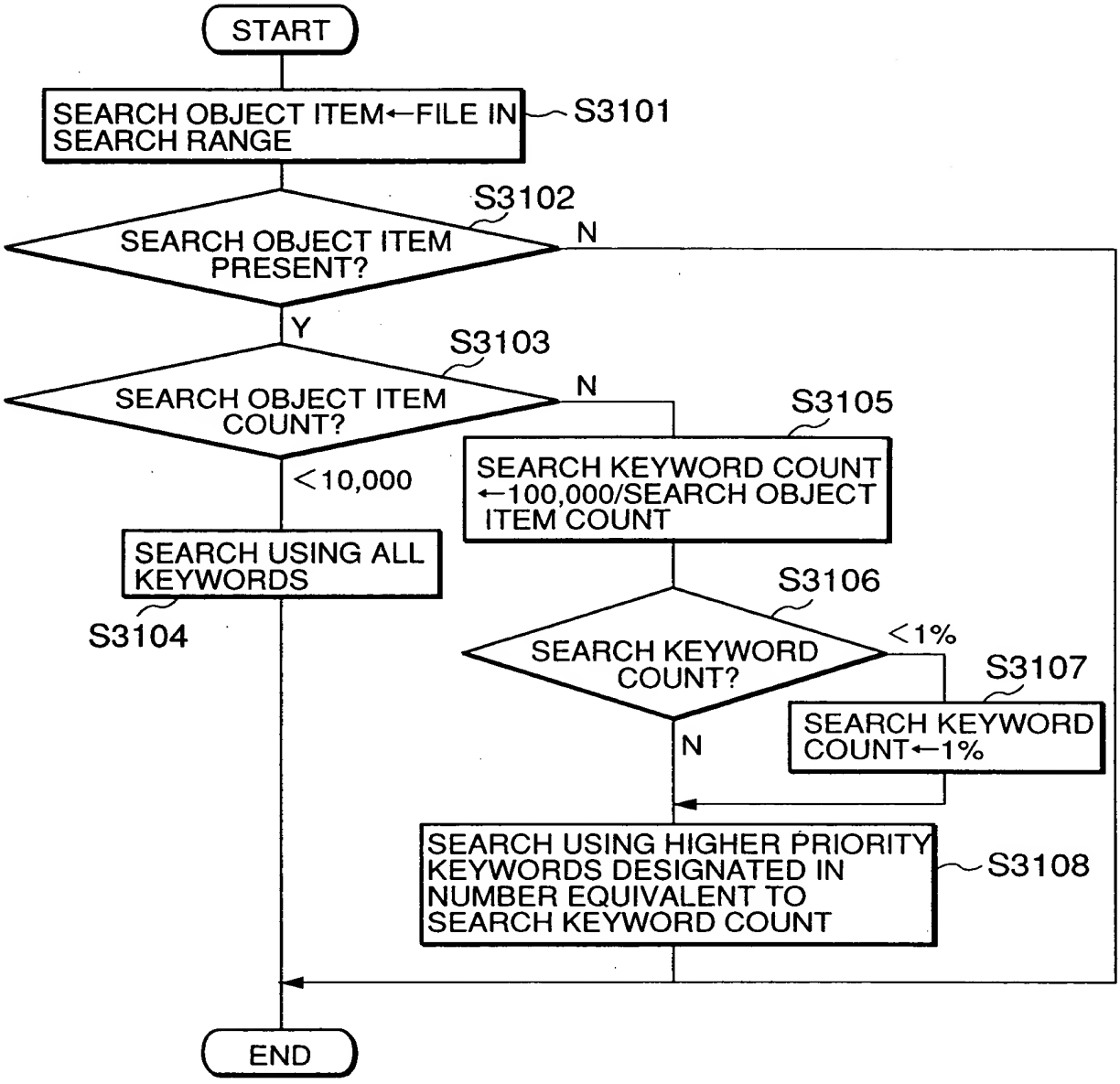
CLASS SUBCLASS
DRAFTSMAN

FIG.31



09/554,048 - 371 Date: 05/26/2000

PROVED

FIG.32A

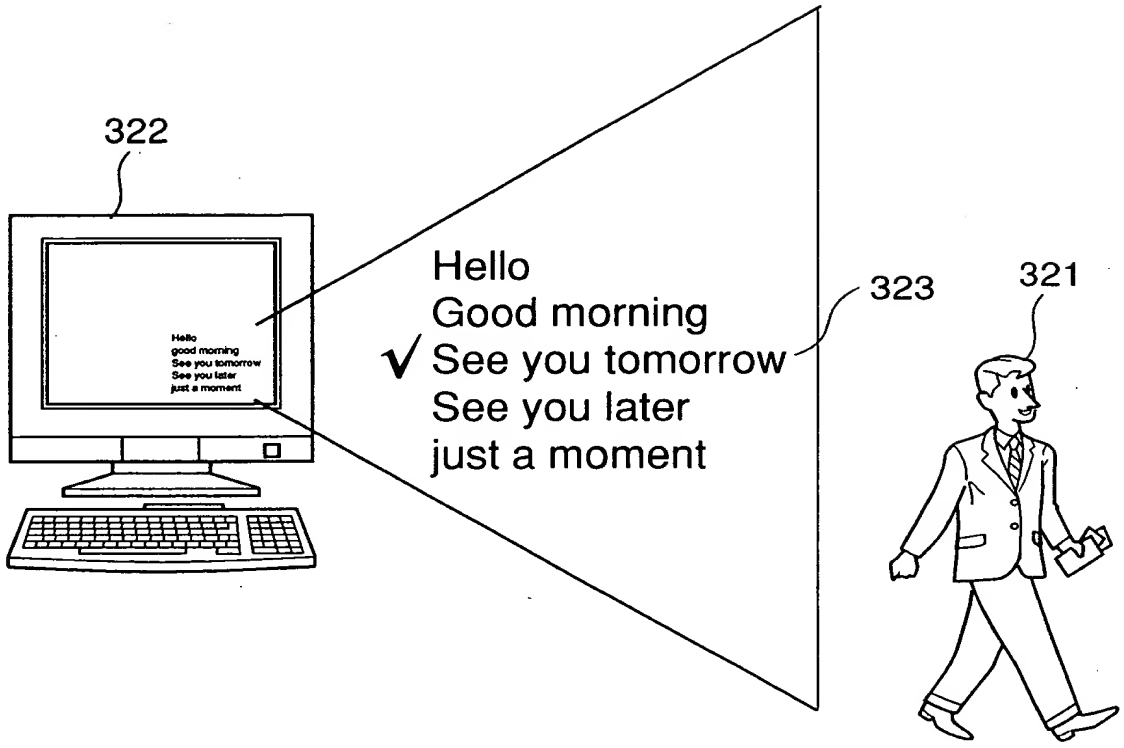


FIG.32B

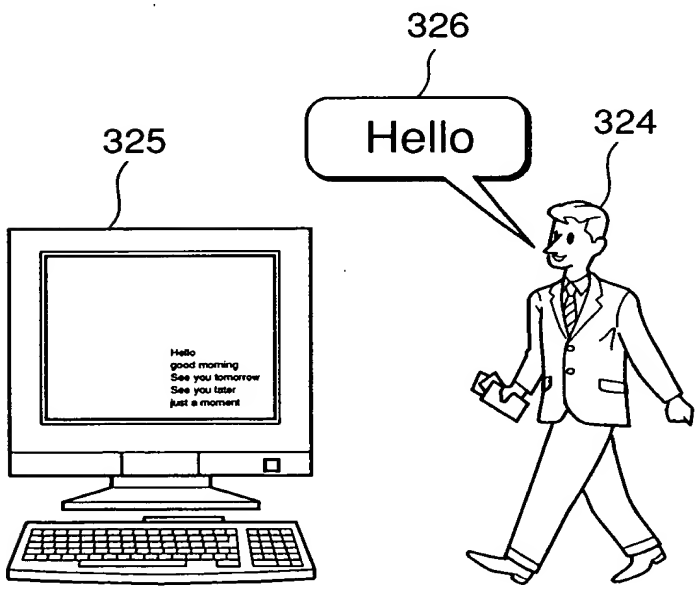


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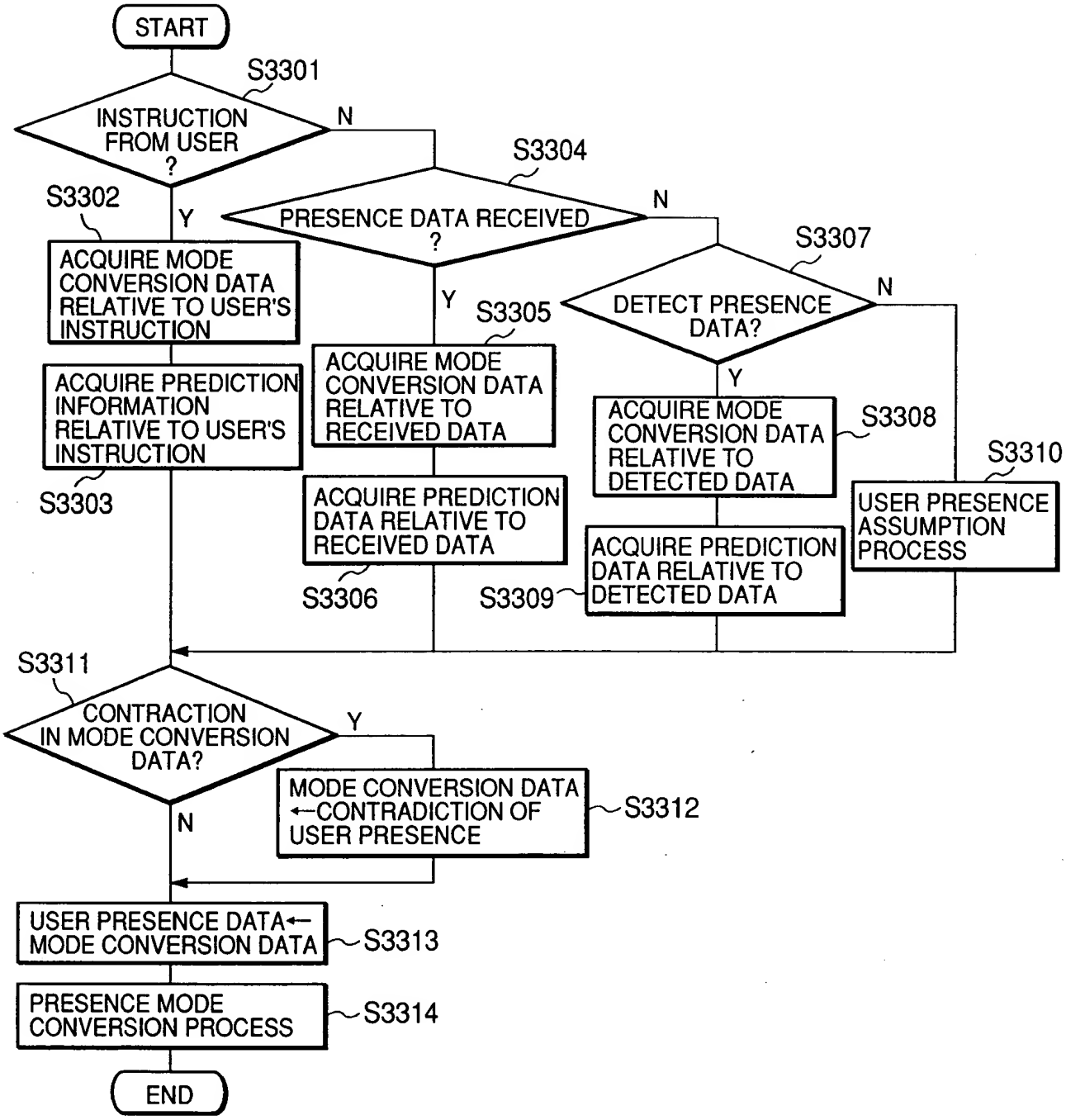
FIG.33



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BY
DRAFTSMAN

FIG.34A

USER INSTRUCTION	MODE CONVERSION	PREDICTION
Hello	ABSENT→RETURNED	
Good morning	ABSENT→RETURNED	
See you tomorrow	PRESENT→ LEFT	ABSENT UNTIL TOMORROW
See you later	PRESENT→ LEFT	ABSENT FOR A WHILE
just a moment	PRESENT→ LEFT	ABSENT IN A MOMENT

FIG.34B

RECEIVED DATA	TRANSMISSION SOURCE	MODE CONVERSION	PREDICTION
RETURN	OSAKA	ABSENT	
RETURN	TOKYO 6F OFFICE ROOM	UNCHANGED	
RETURN	TOKYO 11 MEETING ROOM	ABSENT	
LEAVE	OSAKA	UNCHANGED	ABSENT AT LEAST FOR TWO HOURS
LEAVE	TOKYO 11 MEETING ROOM	UNCHANGED	ABSENT AT LEAST FOR 30 SECONDS

FIG.34C

DETECTED DATA	CURRENT MODE	MODE CONVERSION	PREDICTION
USER PRESENT	PRESENT	UNCHANGED	
USER PRESENT	ABSENT	RETURNED	
USER PRESENT	RETURNED	PRESENT	
USER ABSENT	PRESENT	LEFT	
USER ABSENT	LEFT	ABSENT	

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FIG.35

CONVERSION MODE	DECIDED PROCESS
PRESENT	• REPORT URGENT DATA • DISPLAY DATA WHEN NO MANIPULATION PERFORMED
ABSENT	• LOCK TO INHIBIT USE BY A THIRD PARTY • LOCK ONLY DATA AND PROCESS THAT FOR SECURITY ARE NOT PERMITTED IN ORDER TO INHIBIT USE BY A THIRD PARTY • ENABLE USE OF DATA AND PROCESS PERMITTED BY SECURITY • DISPLAY LOCATION OF USER
	• DISPLAY MESSAGE • DISPLAY MESSAGE ONLY TO SPECIFIED PERSON • ACCEPT MESSAGE FROM VISITOR • RETURN ABSENCE NOTICE IN RESPONSE TO E-MAIL, FAX AND TELEPHONE CALL DURING ABSENCE • PERFORM PROCESS IN RESPONSE TO E-MAIL, FAX AND TELEPHONE CALL DURING ABSENCE
LEFT	• REPORT DATA USER SHOULD RECALL
RETURNED	• RELEASE A LOCK • RECOVER JOB ENVIRONMENT STATE WHEN USER LEFT • NOTIFY SECOND INFORMATION PROCESSING APPARATUS CONNECTED VIA A NETWORK OF RETURN OF USER • DISPLAY MESSAGE FROM VISITOR. • DISPLAY CONTENTS OF E-MAIL, FAX AND TELEPHONE MESSAGE RECEIVED DURING ABSENCE • DISPLAY PROCESSING CONTENTS PERFORMED DURING ABSENCE
UNKNOWN	• QUERY AS TO WHETHER USER IS NEARBY
CONTRACTION	• CONFIRM WHETHER USER IS CORRECT • NOTIFY USER OF DISCOVERY OF CONTRADICTION • NOTIFY SECOND INFORMATION PROCESSING APPARATUS CONNECTED VIA A NETWORK OF DISCOVERY OF CONTRADICTION • LOCK • ALARM
NO PROCESS	NO PROCESS

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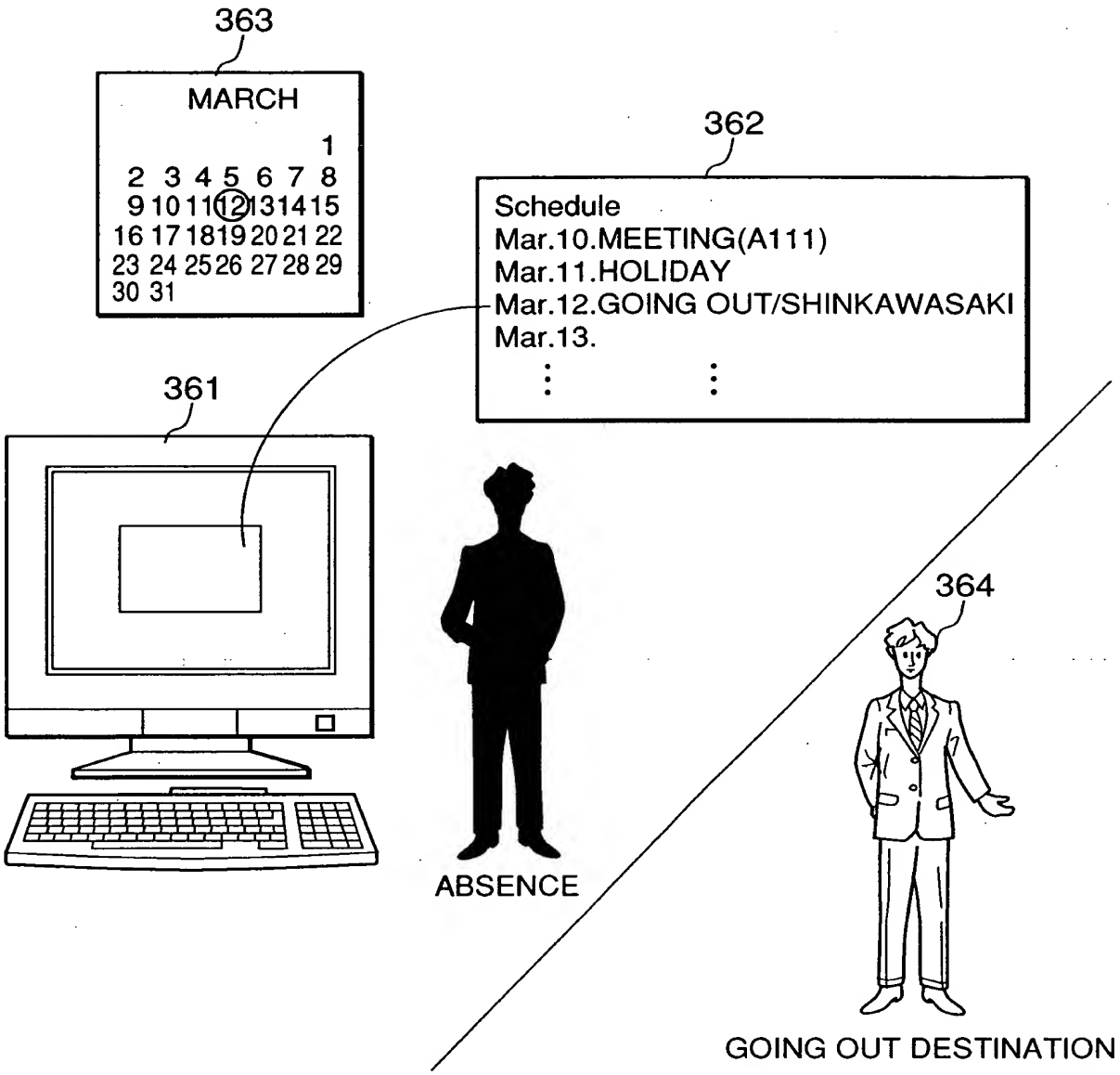
FIG.36



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APPROVED
DRAWING

FIG.37

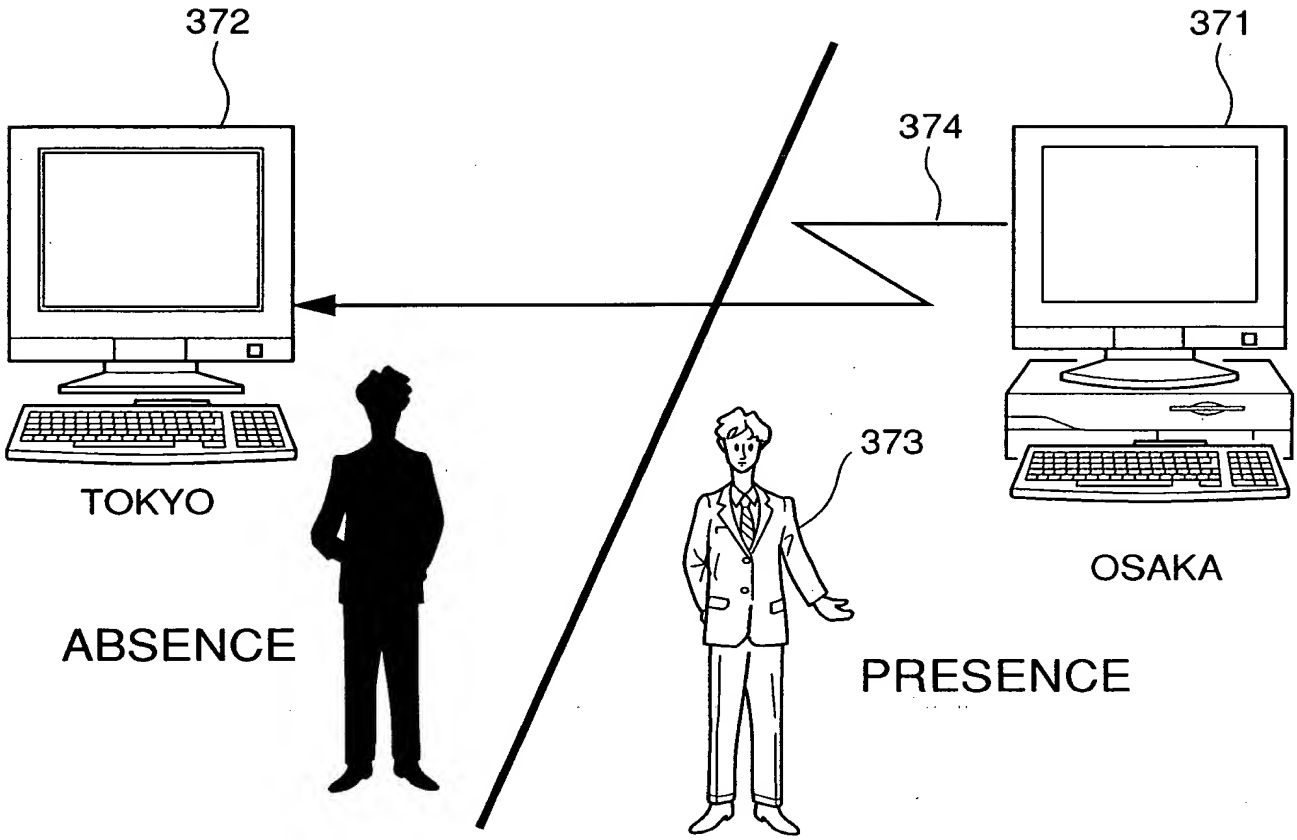

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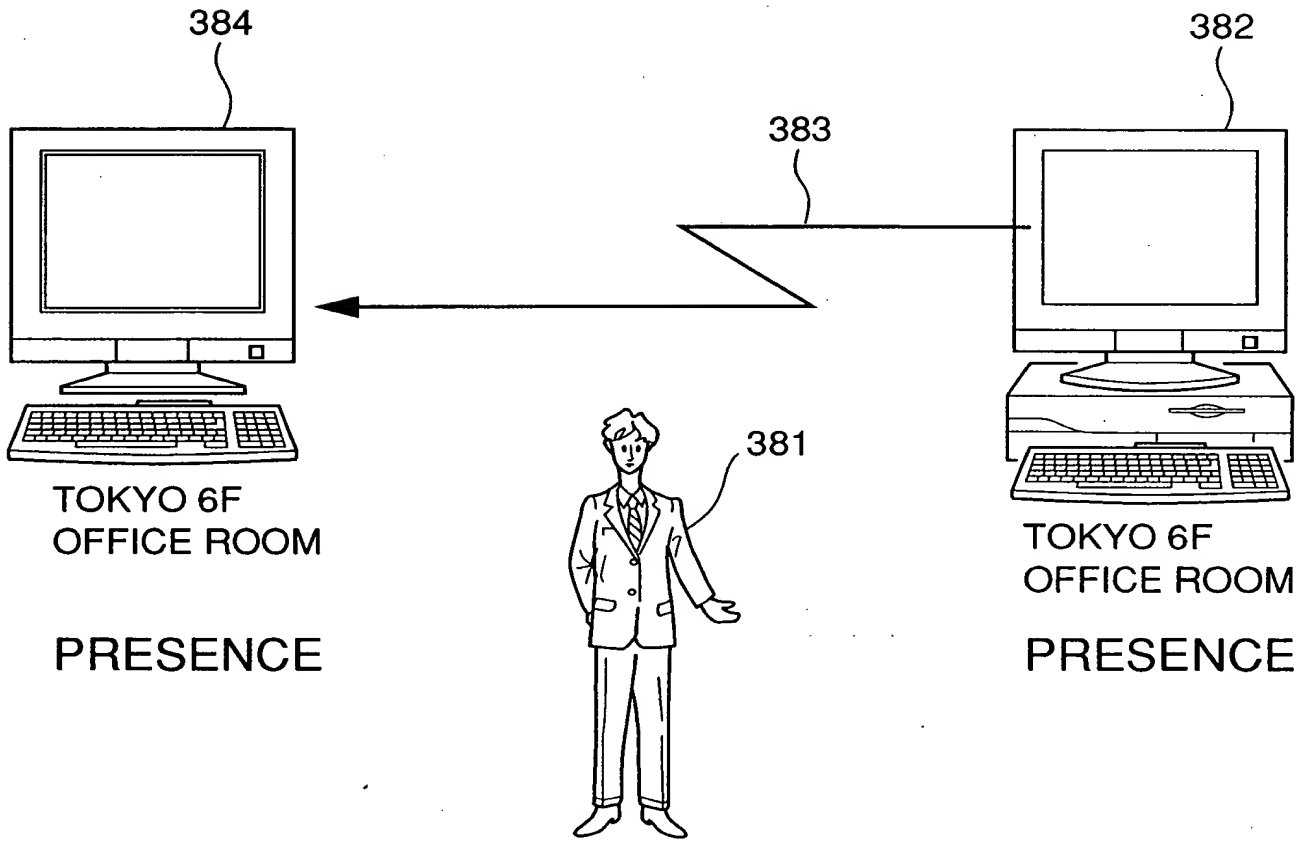
FIG.38



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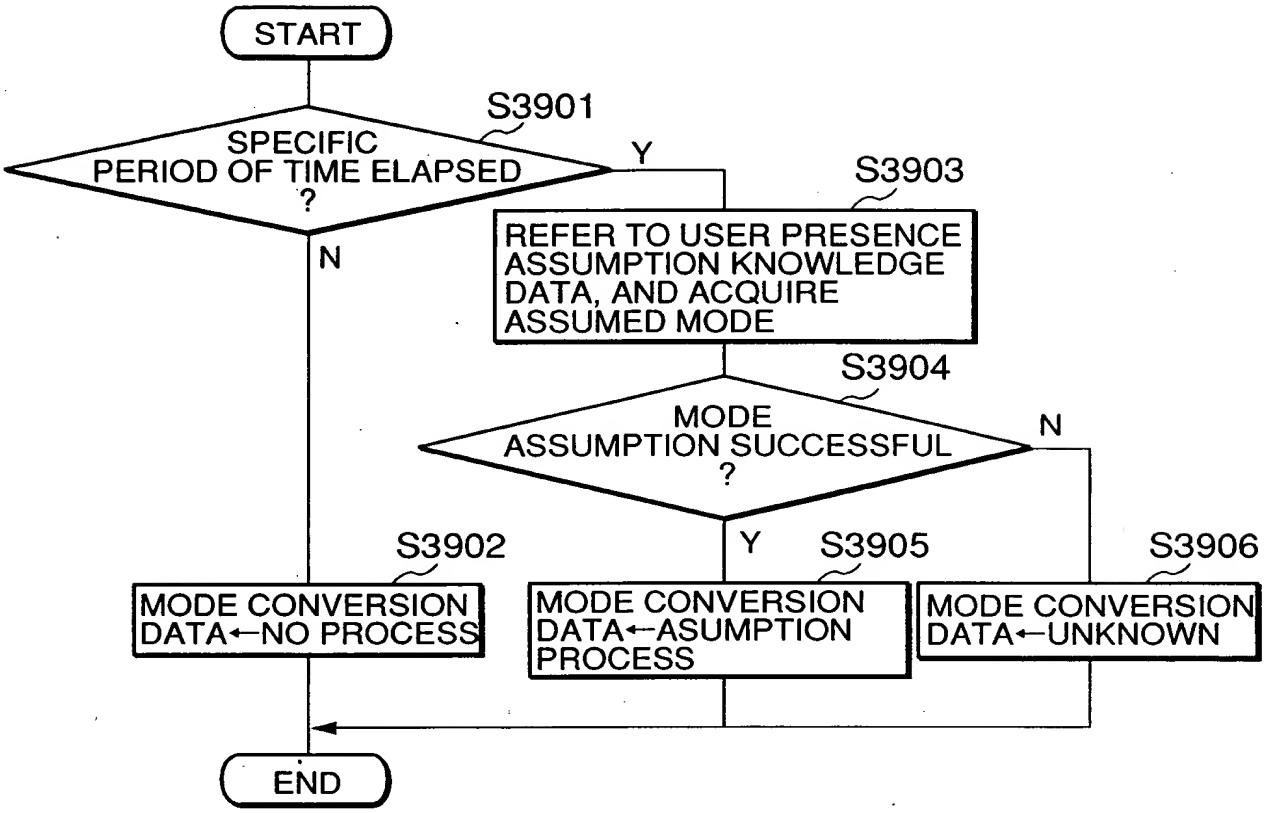
DRAFTSMAN

FIG.39



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C.G. FI
CLASS

FIG.40

ASSUMPTION KNOWLEDGE	MODE ASSUMPTION
ONE DAY HAS NOT ELAPSED SINCE SEE YOU TOMORROW	ABSENT
ONE MINUTE HAS NOT ELAPSED SINCE SEE YOU LATER	ABSENT
TWO HOURS HAS NOT ELAPSED SINCE USER LEFT OSAKA	ABSENT
30 SECONDS HAS NOT ELAPSED SINCE USER LEFT TOKYO 11 MEETING ROOM	ABSENT
DURING HOLIDAYS ACCORDING TO SCHEDULE DATA	ABSENT
DURING MEETING ACCORDING TO SCHEDULE DATA	ABSENT
OUT OF OFFICE ACCORDING TO SCHEDULE DATA.	ABSENT
ACCORDING TO TO DO LIST, THERE IS URGENT JOB THAT USER CAN NOT DO WHILE PRESENT	ABSENT
ACCORDING TO TO DO LIST, THERE IS URGENT JOB THAT USER CAN NOT DO WHILE ABSENT	PRESENT
ACCORDING TO TO DO LIST, USER MUST BE PRESENT AND WAIT FOR CONTACT	PRESENT
ACCORDING TO PREVIOUSLY RECEIVED DATA, THERE IS URGENT JOB THAT USER CAN NOT DO WHILE PRESENT	ABSENT
ACCORDING TO PREVIOUSLY RECEIVED DATA, THERE IS URGENT JOB THAT USER CAN NOT DO WHILE ABSENT	PRESENT
ACCORDING TO PREVIOUSLY RECEIVED DATA, USER MUST BE PRESENT AND WAIT FOR CONTACT	PRESENT
ACCORDING TO HYSTERESIS DATA, USER IS ABSENT DURING THIS PERIOD TIME	ABSENT
ACCORDING TO HYSTERESIS DATA, USER IS PRESENT DURING THIS PERIOD	PRESENT

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O.G. FIG.
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FIG.41A

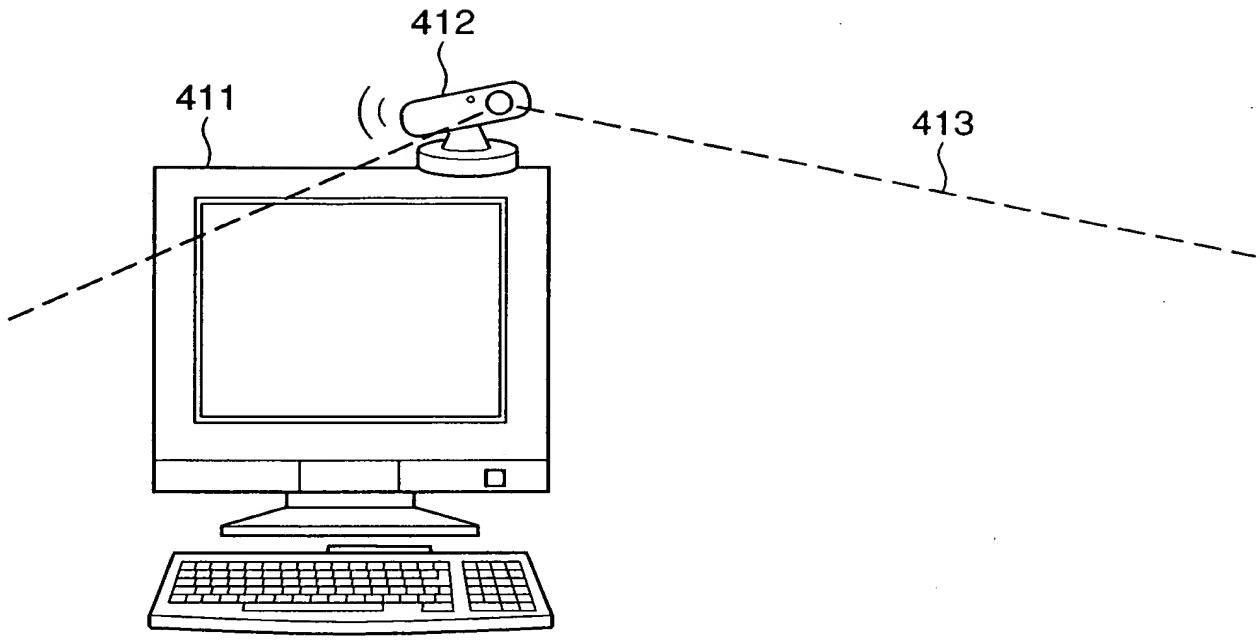
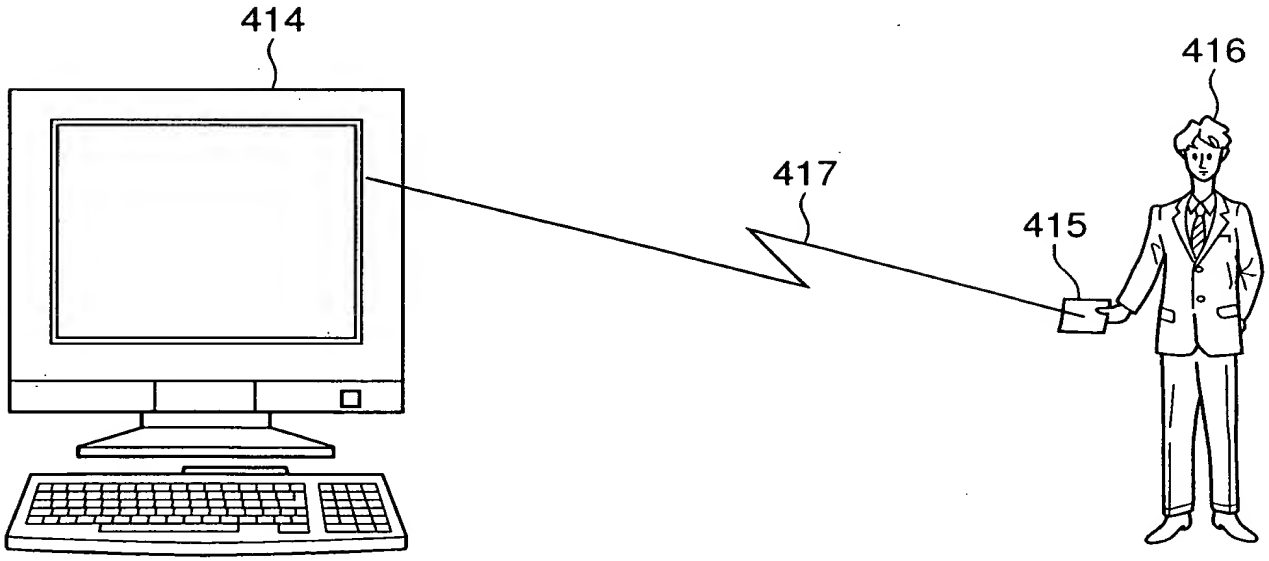


FIG.41B



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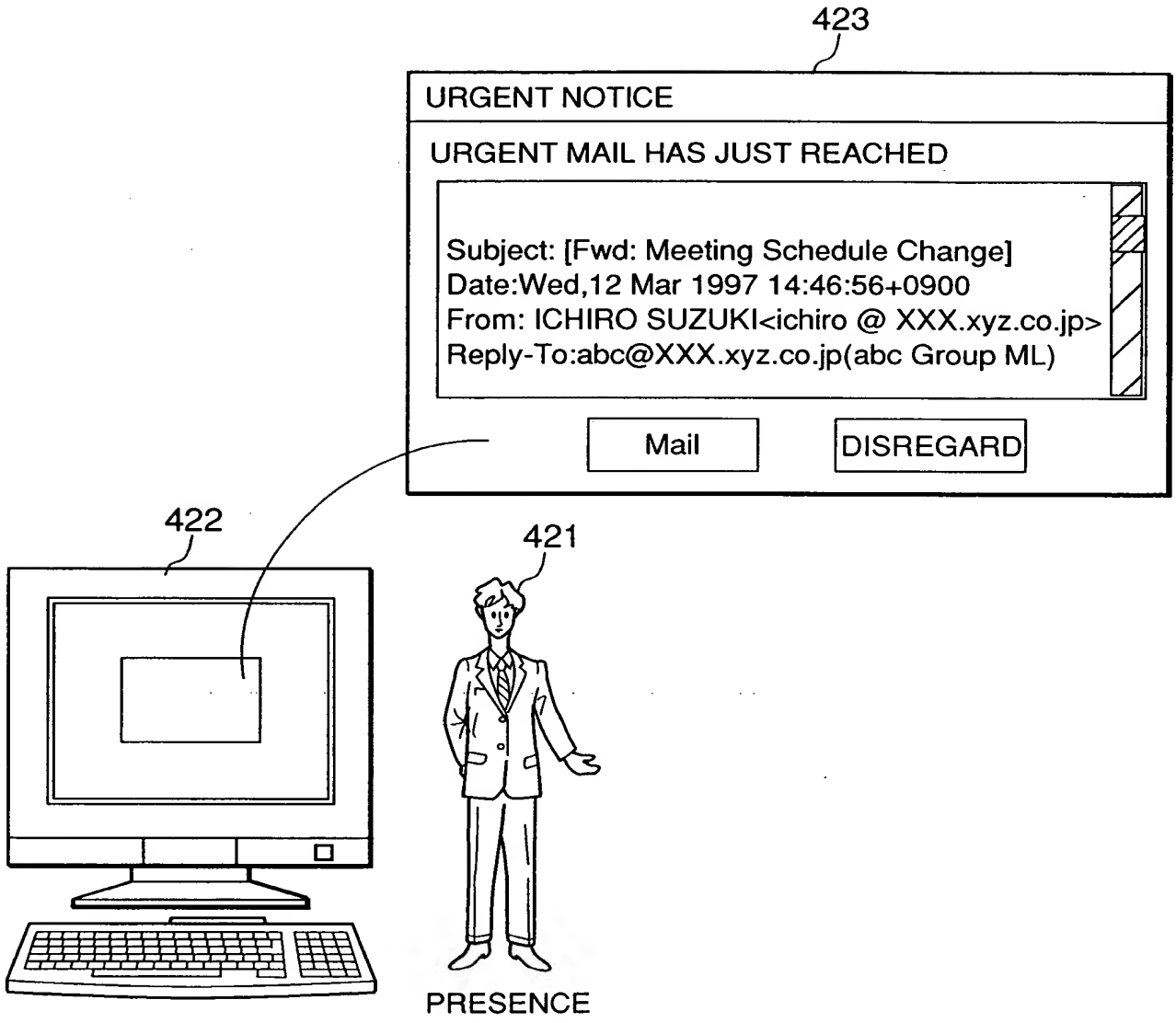
DRAFTSMAN

FIG.42



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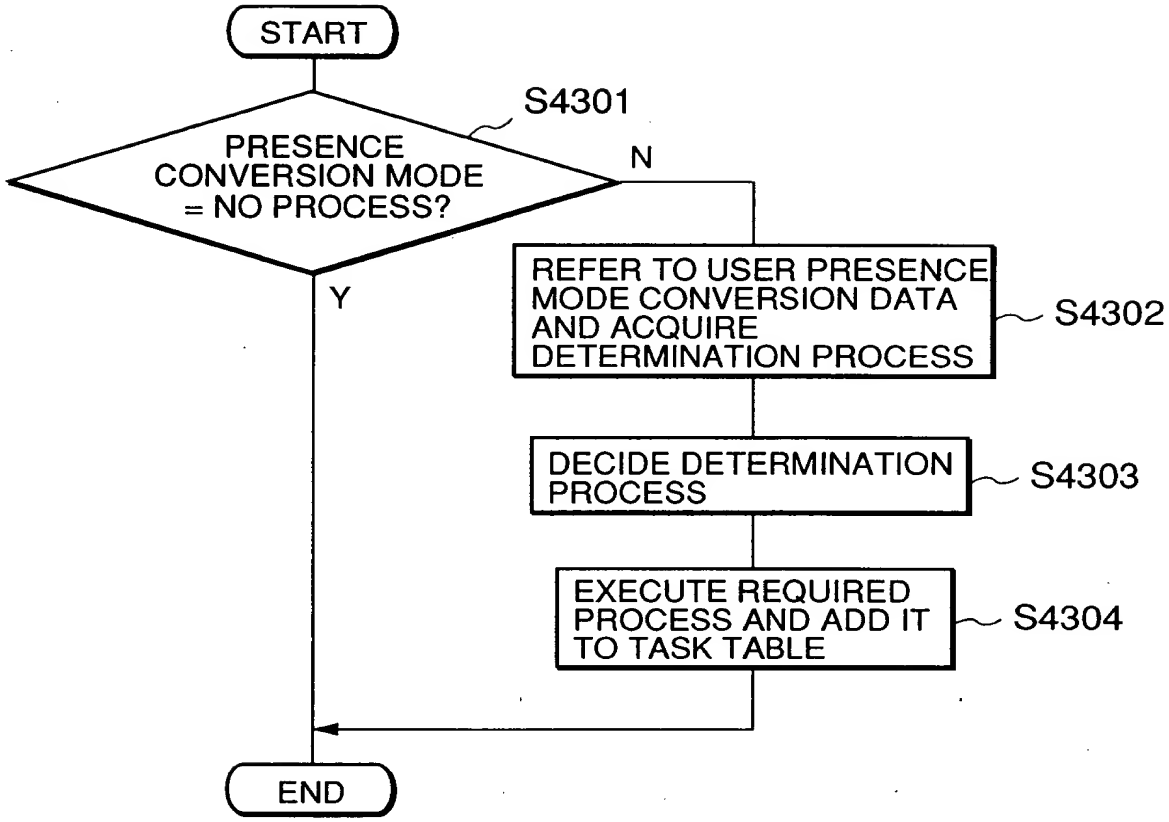
APPROVED BY DRAFTSMAN
O.G. FIG.
CLASS SUBCLASS

FIG.43



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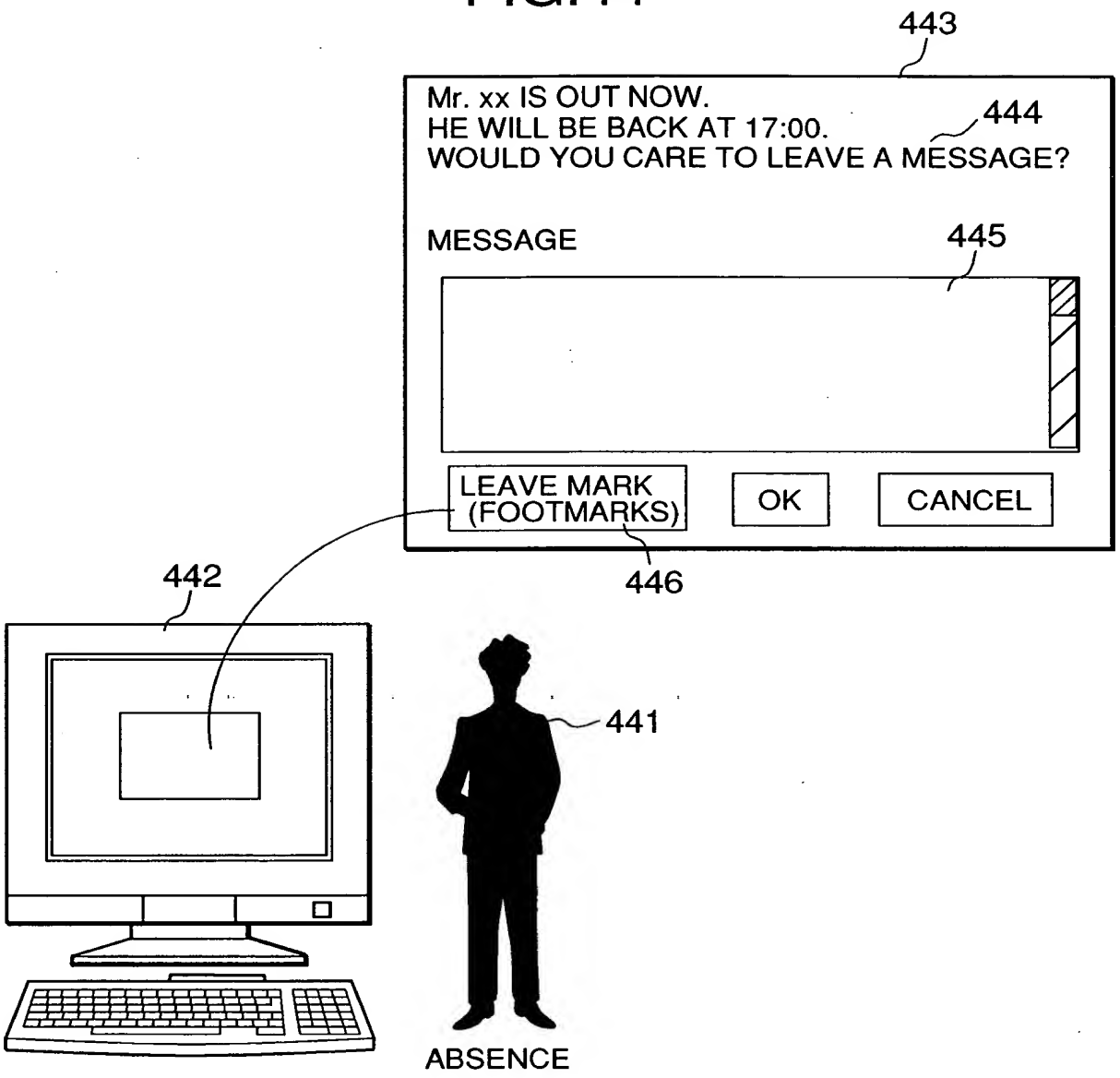
DRAFTSMAN
C.G. FIG.
CLASS
SUBCLASS

FIG.44



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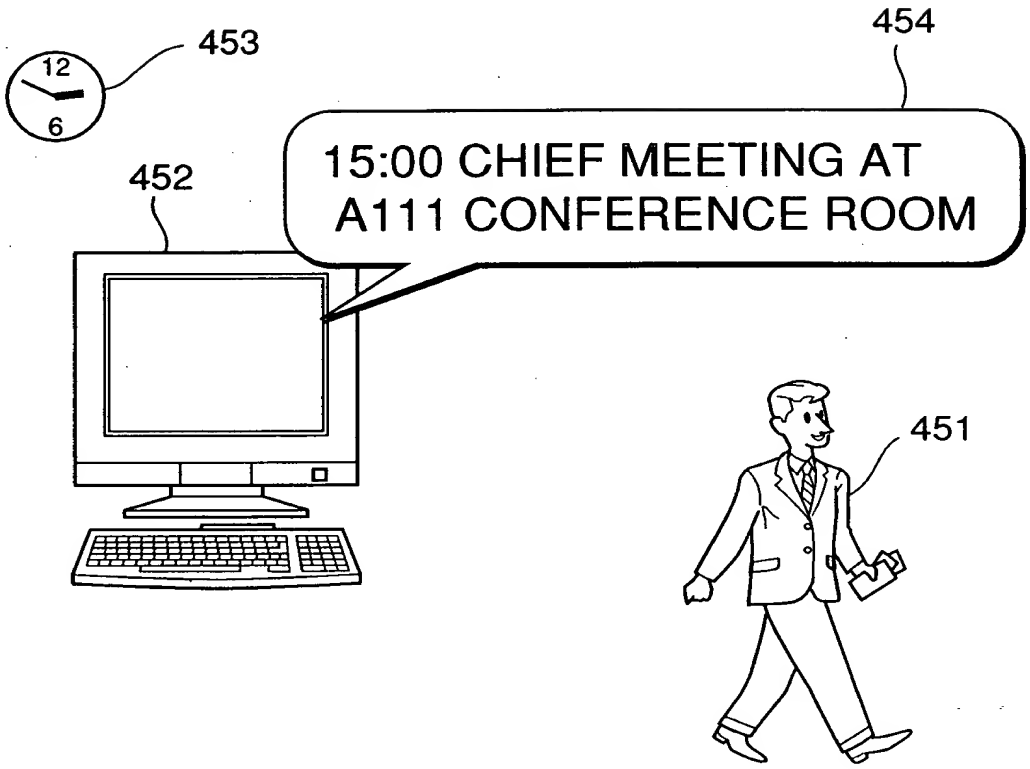
O.G. FIG.
CLASS
SUBCLASS

FIG.45



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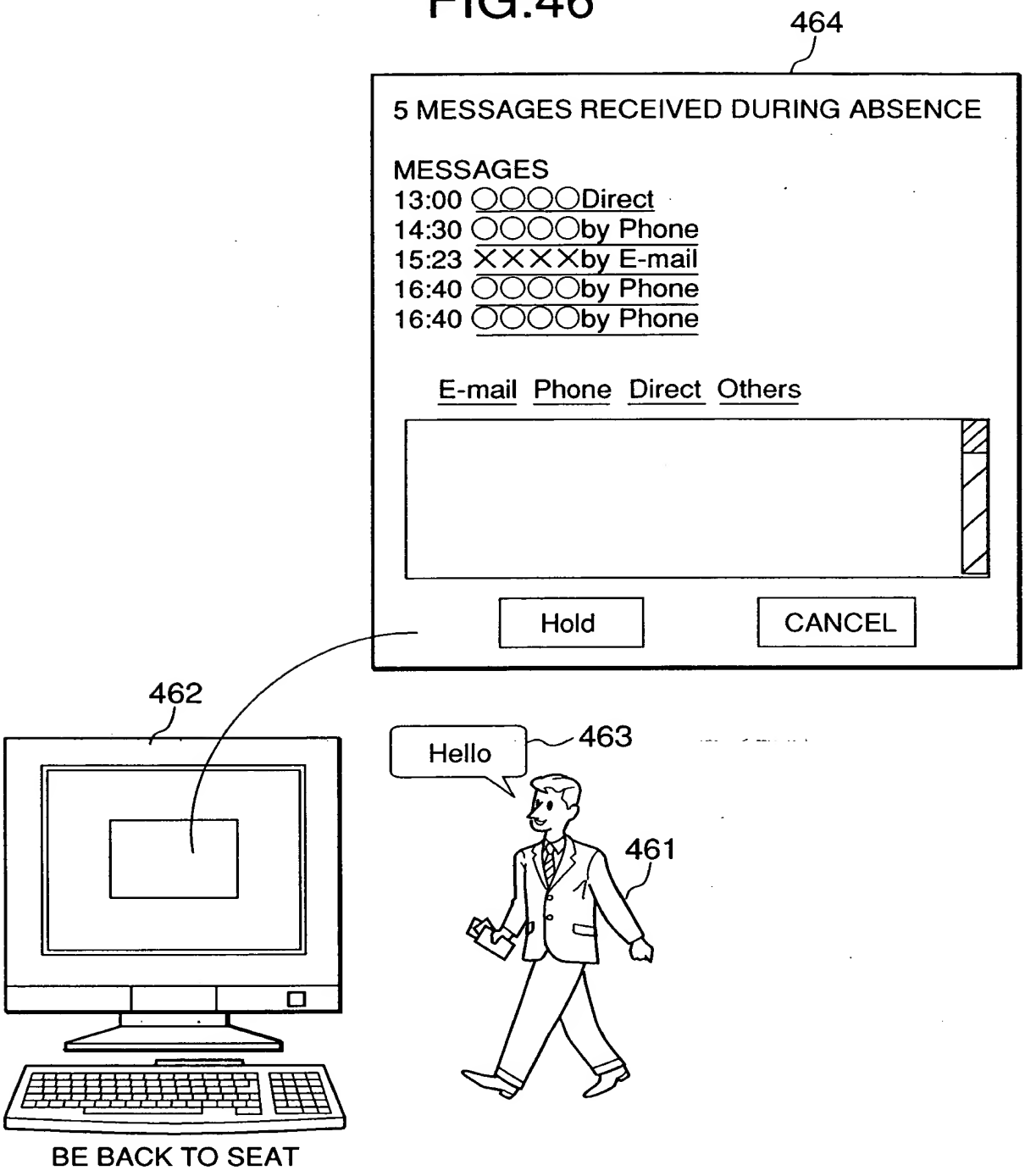
APPROVED
DRAFTSMAN

FIG.46



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PCT/JP98/05359

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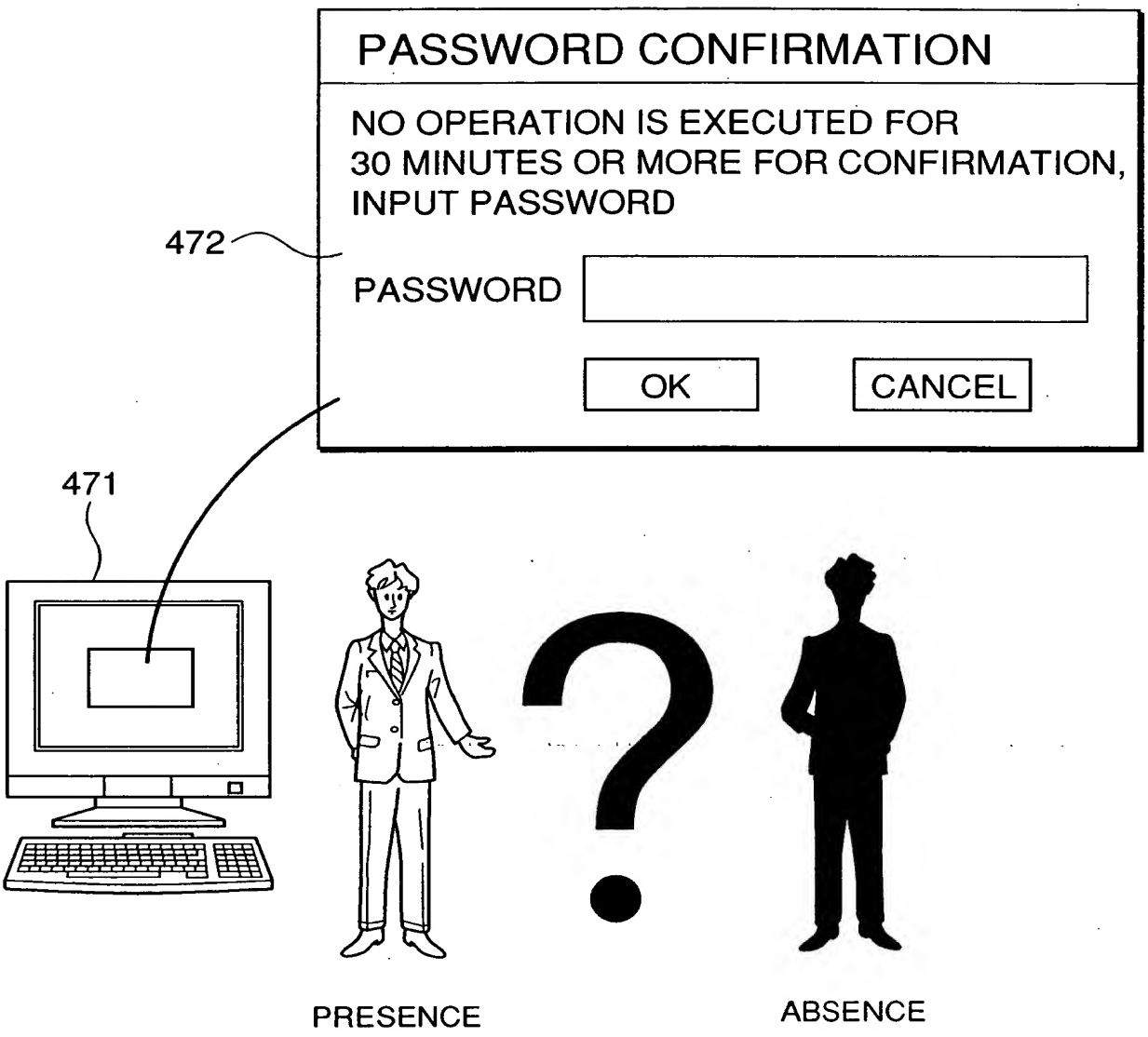
O.G. FIG.
CLASS SUBCLASS

FIG.47



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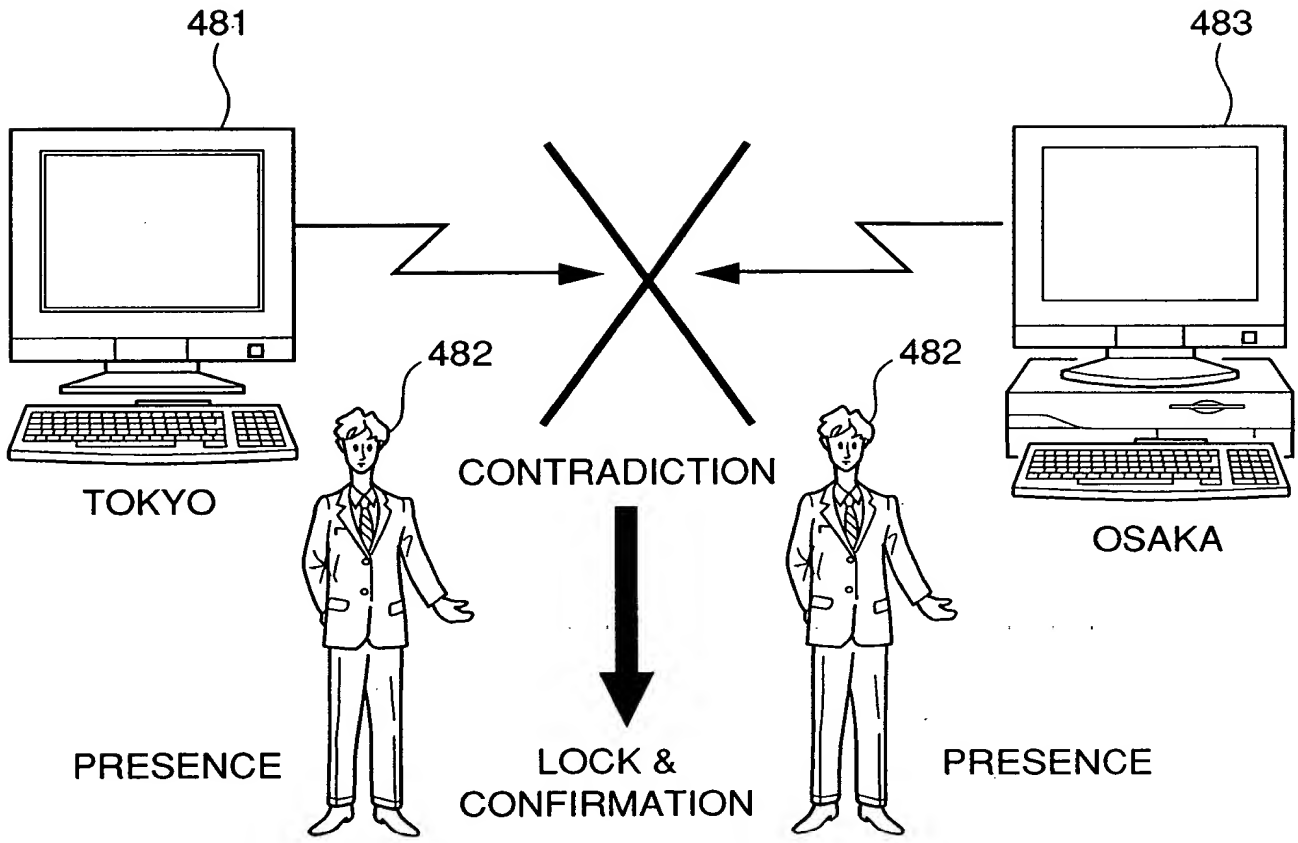
CLASS SUBCLASS
DRAFTSMAN

FIG.48



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APPROVED
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FIG.49

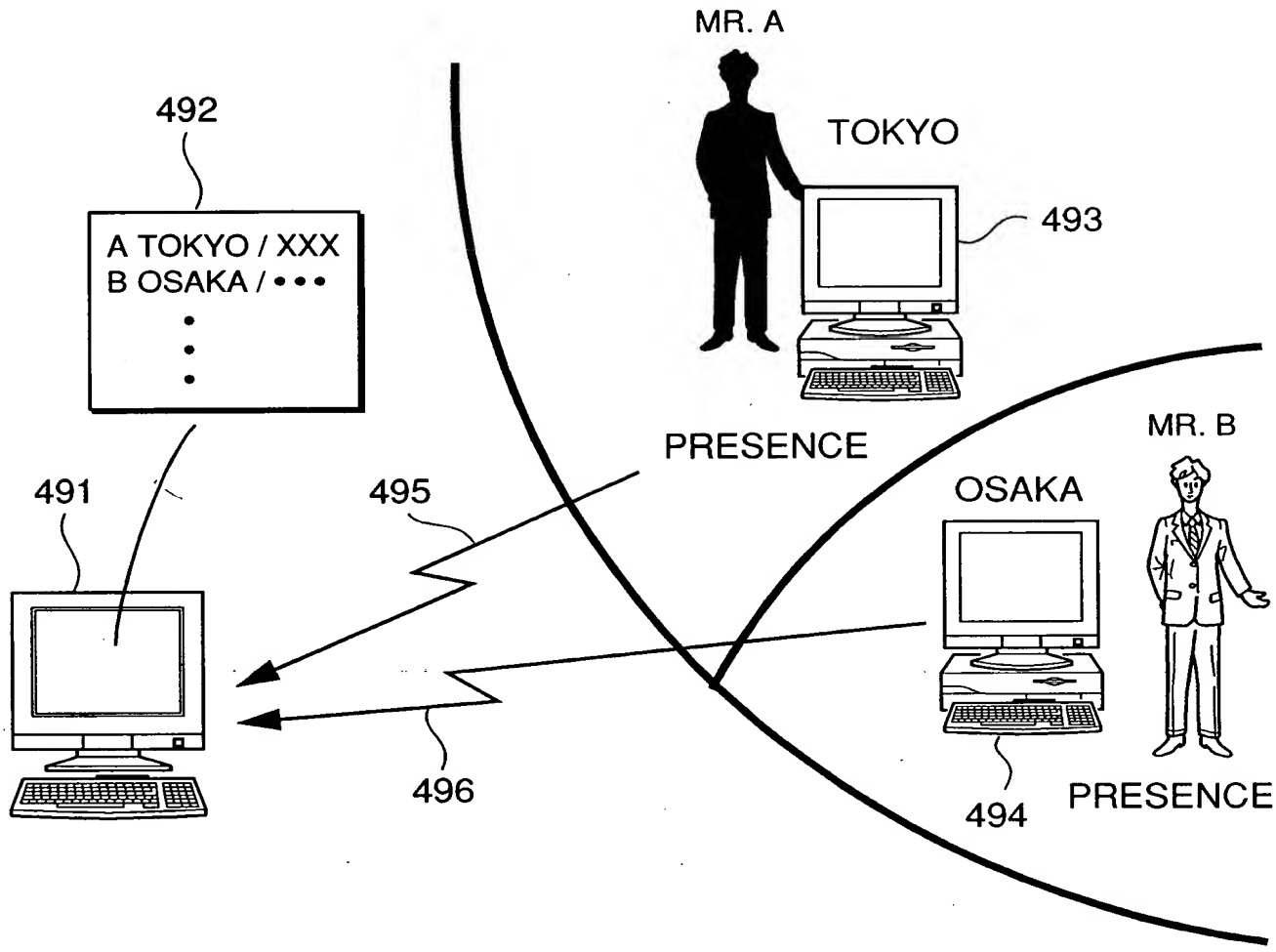

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FIG.50

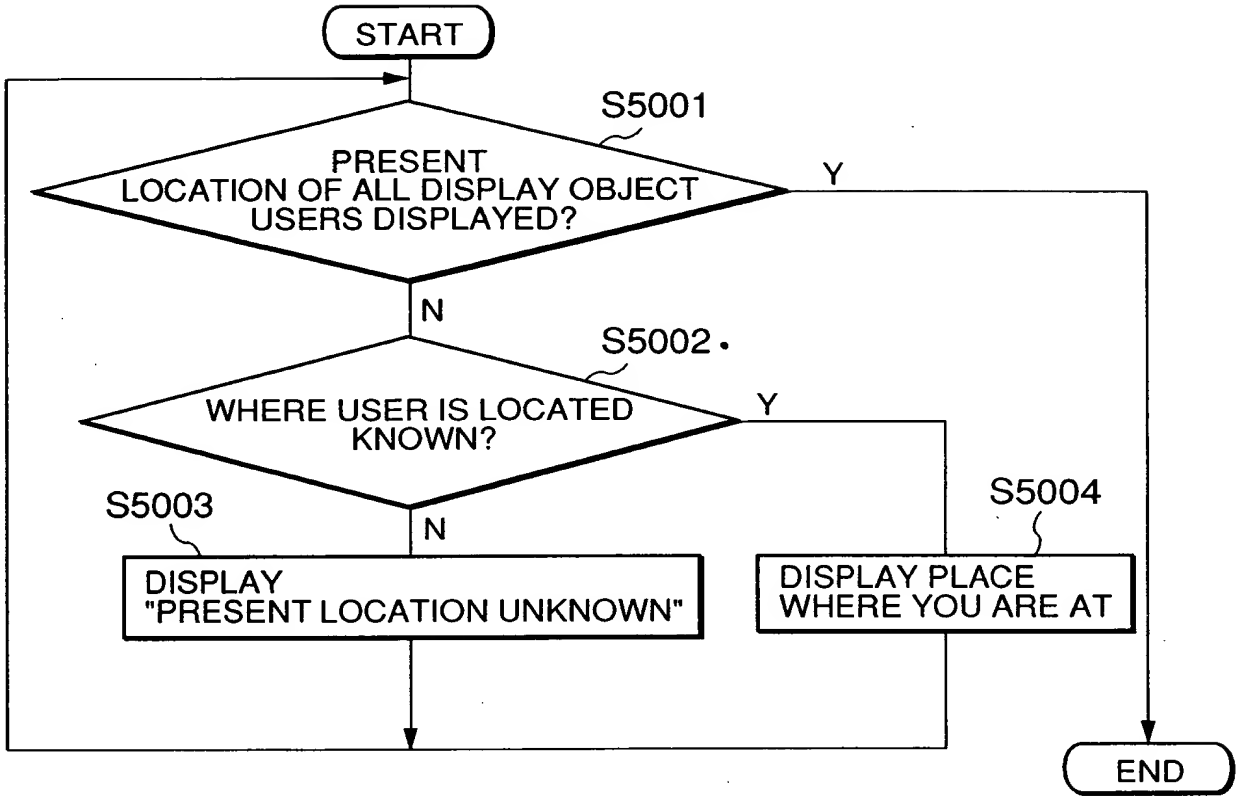

FIG.51

USER NAME	PRESENT LOCATION
A	TOKYO / xxxx
B	OSAKA / ••••
C	PRESENT LOCATION UNKNOWN
D	PRESENT LOCATION UNKNOWN
E	TOKYO 11F CONFERENCE ROOM

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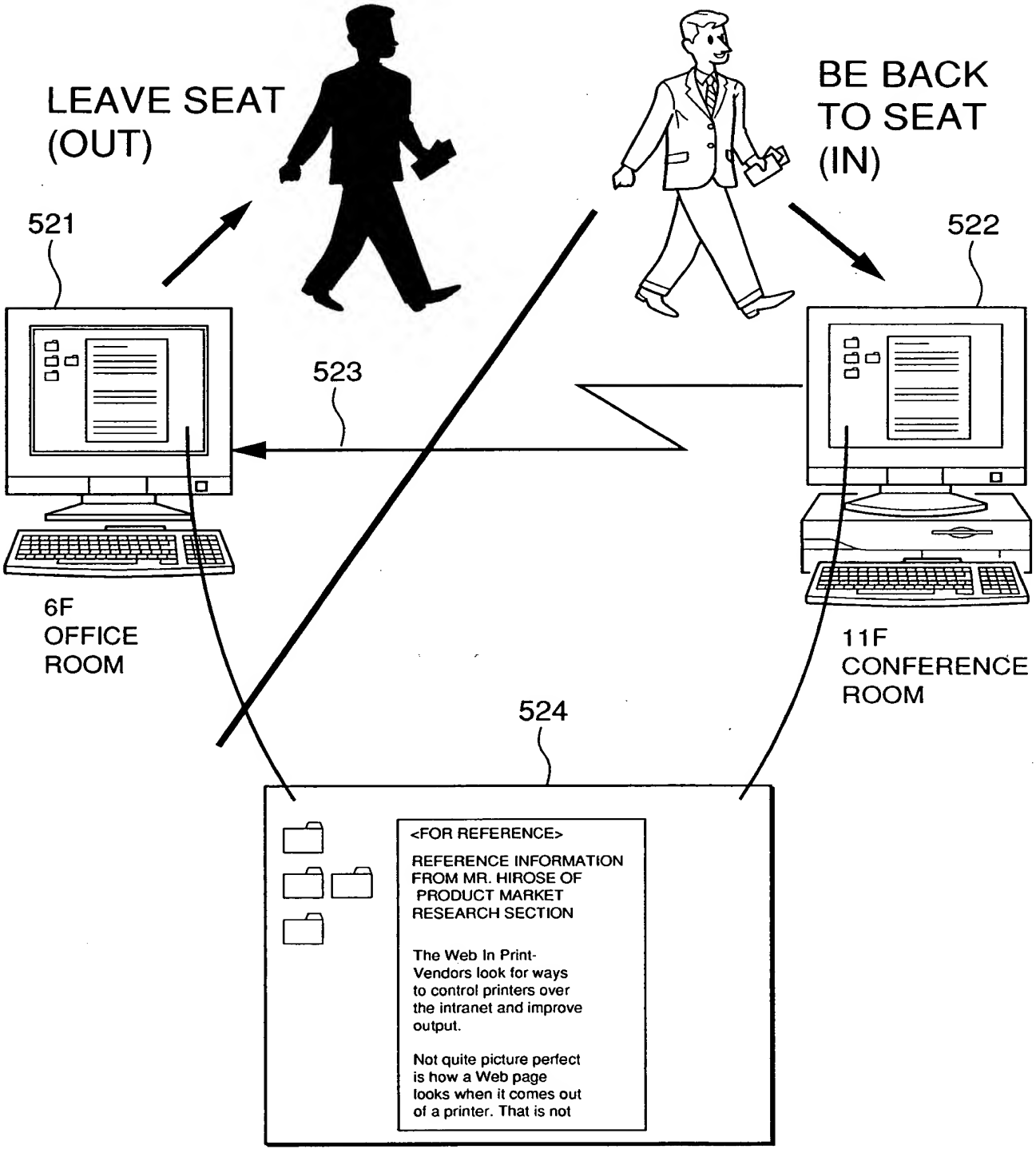
FIG.52



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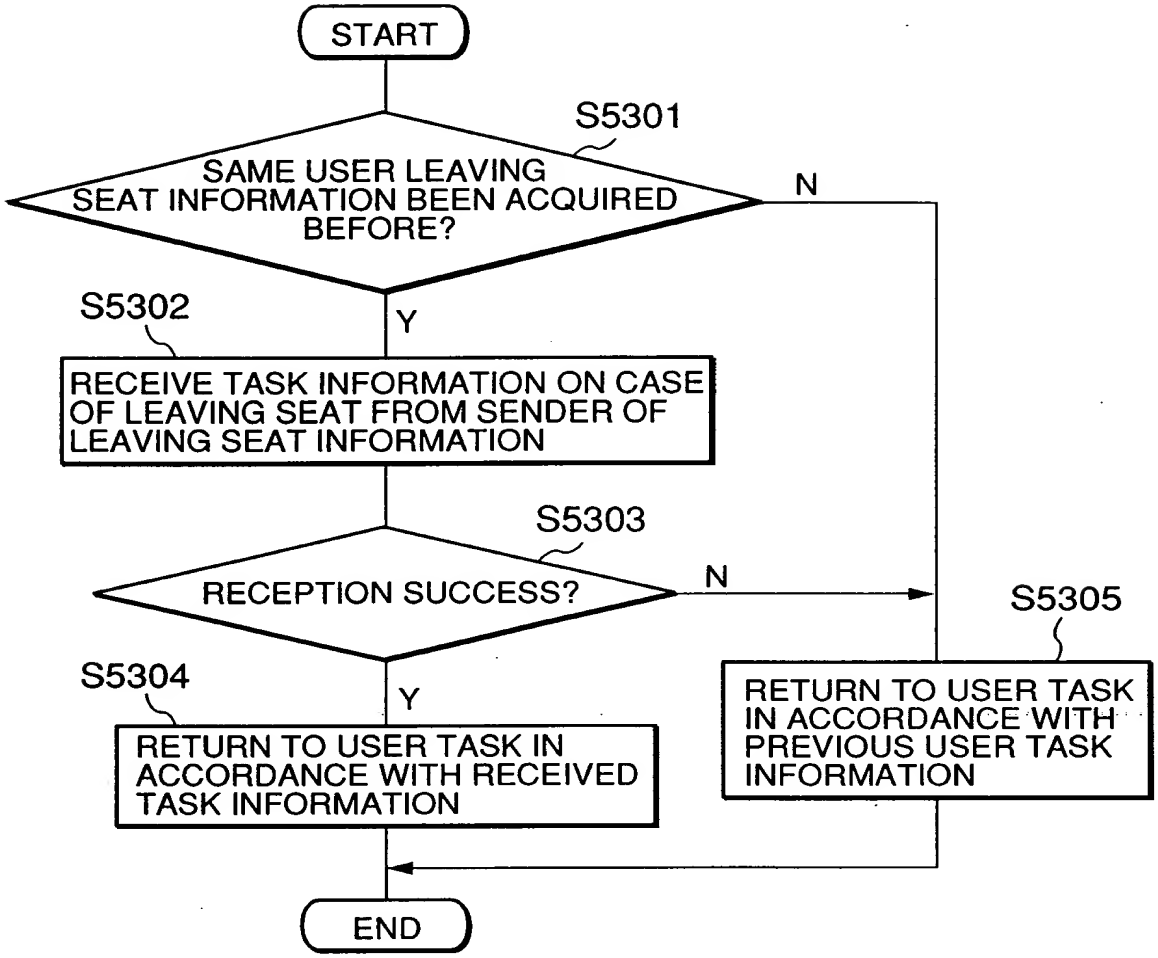
DRAFTSMAN

FIG.53



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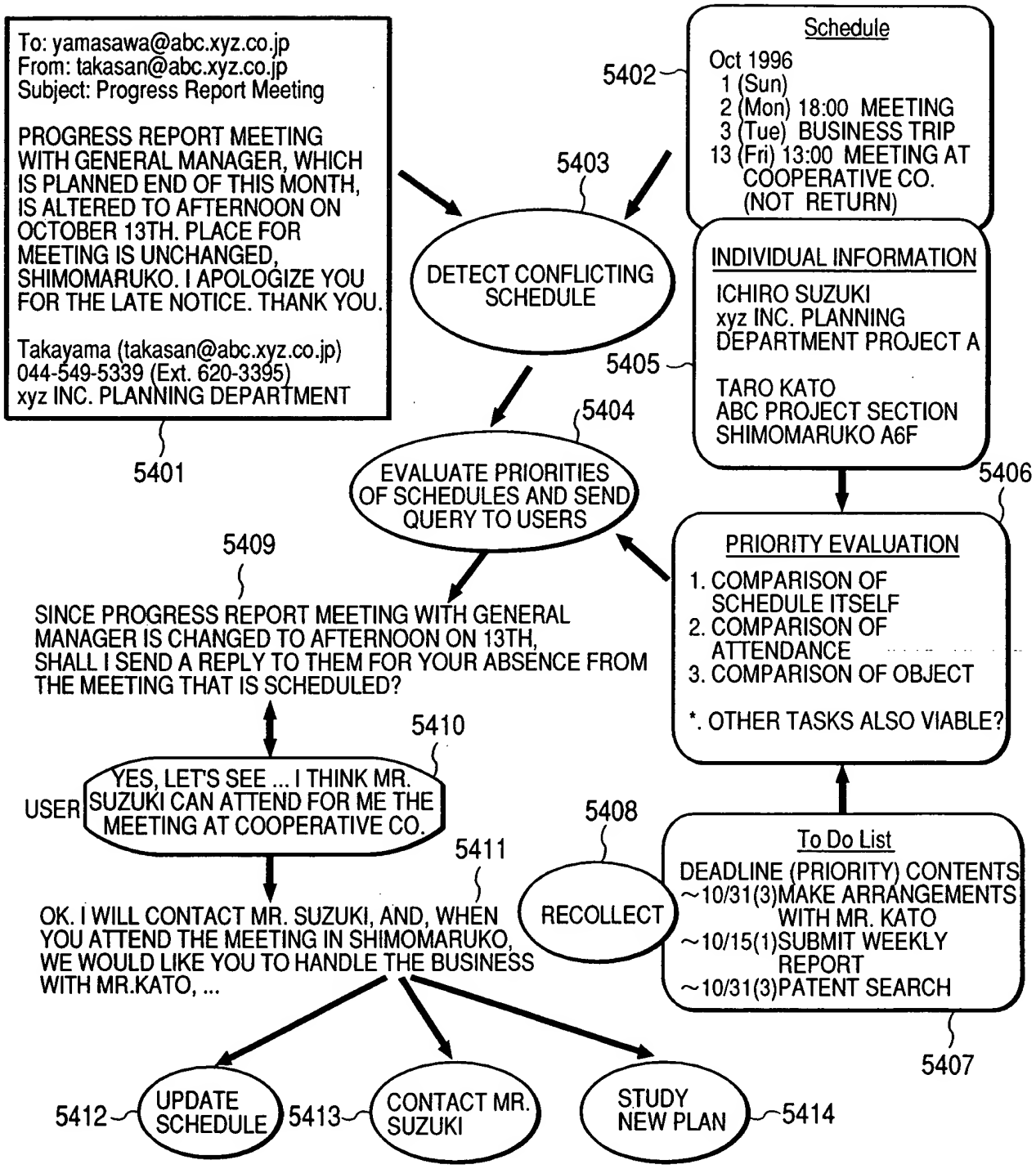
DRAFTSMAN

FIG.54



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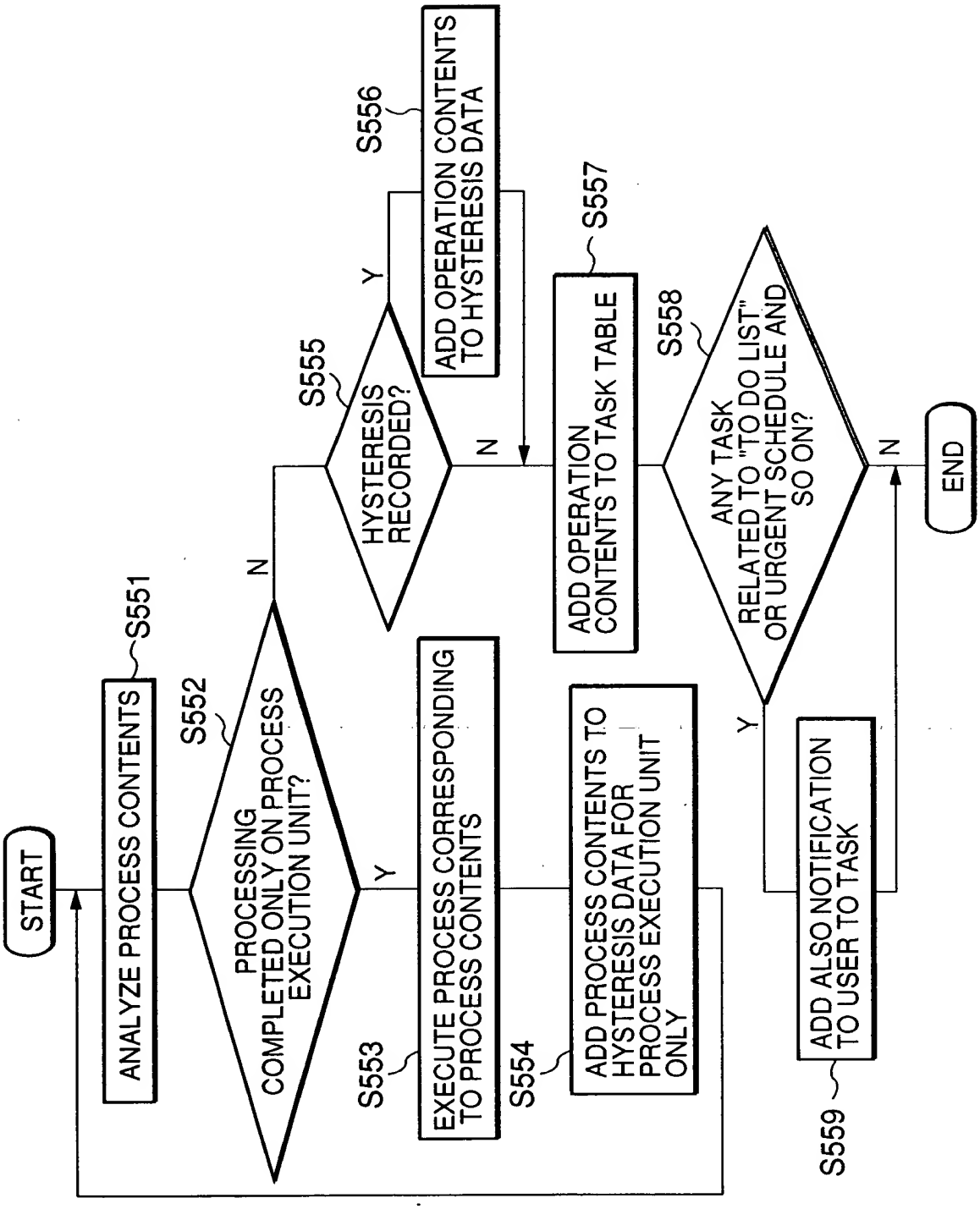
CLASS SUBCLASS

FIG.55



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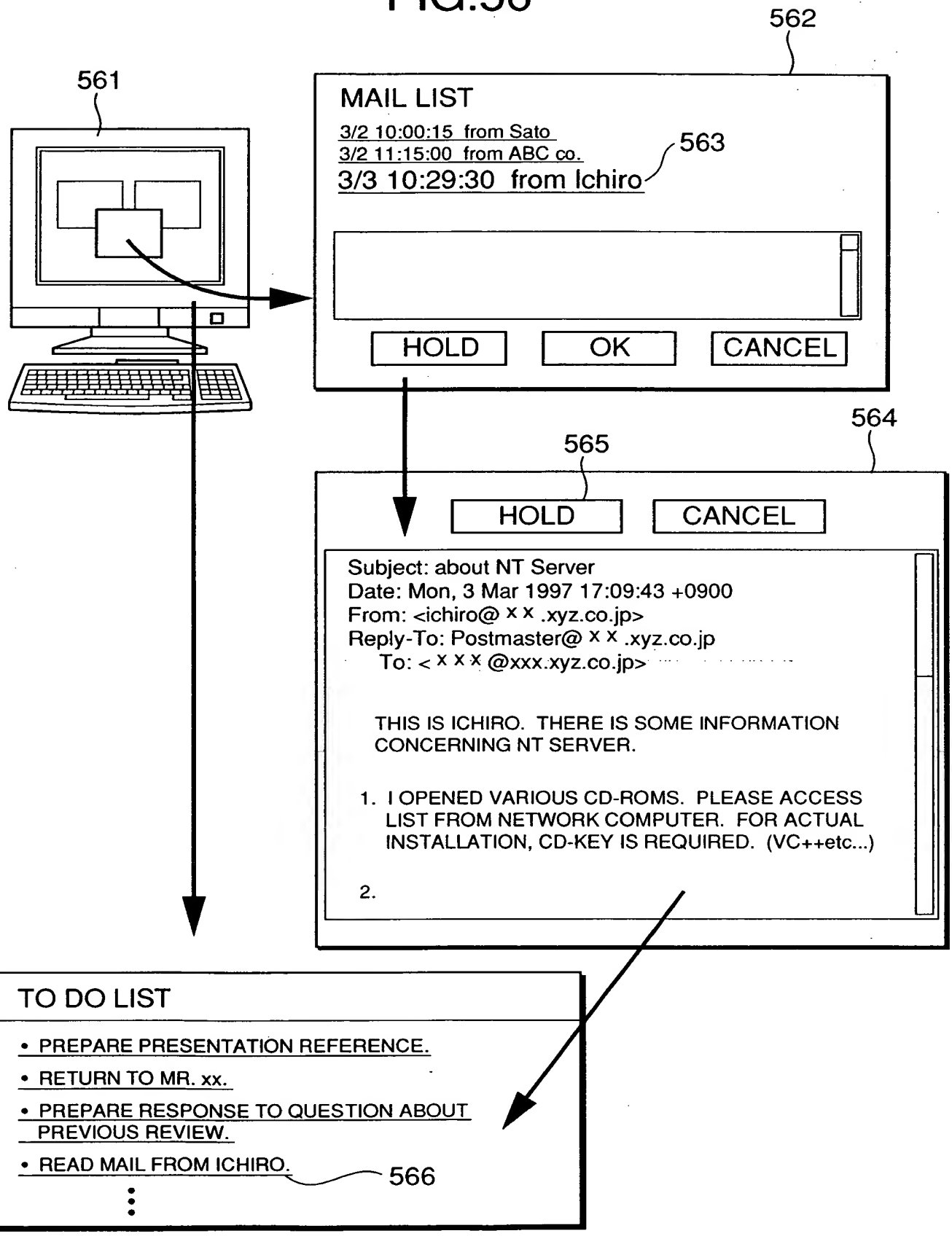
APPROVED
DRAFTS

FIG.56



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APPROVED
DRAFTSMAN

FIG.57

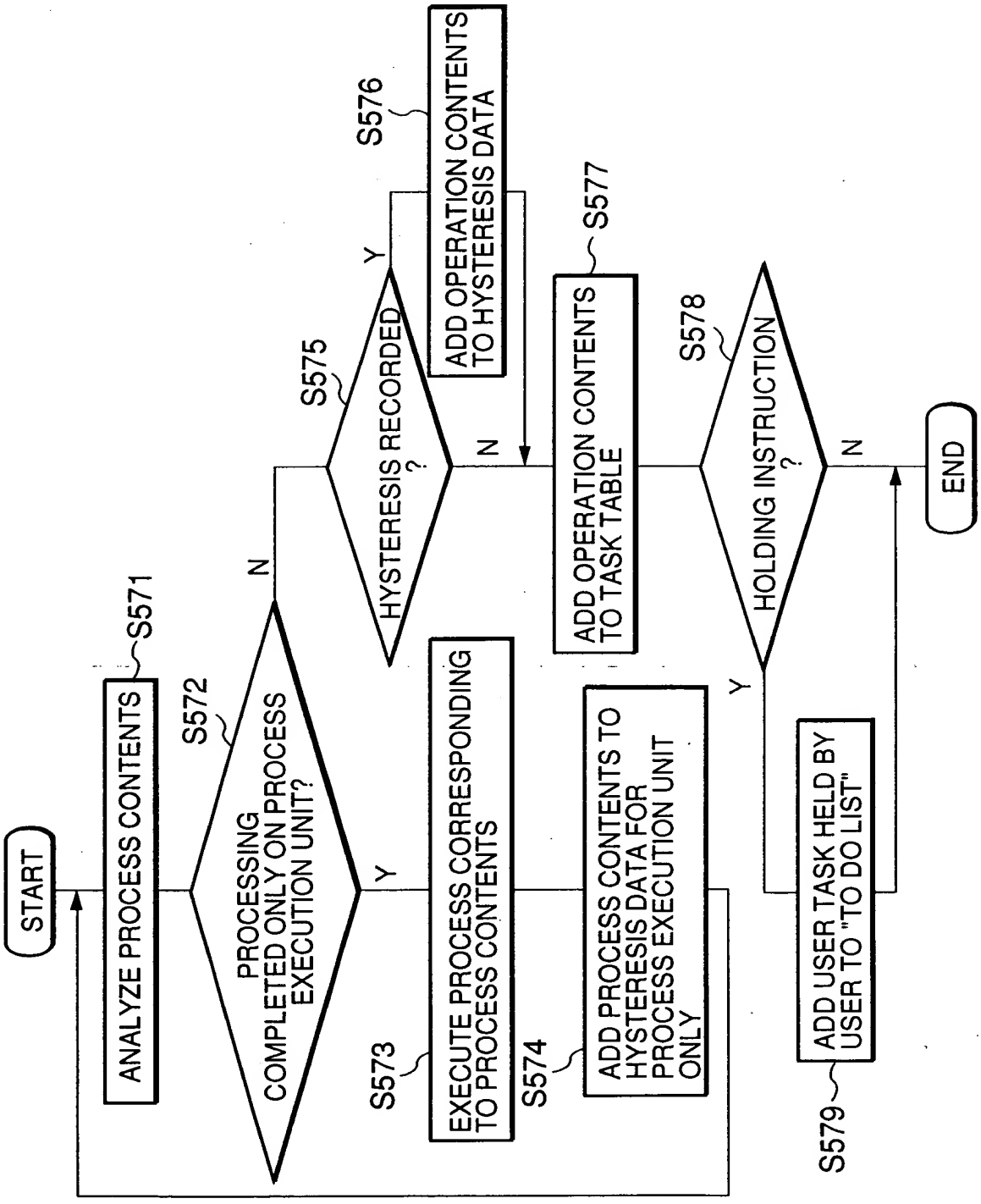

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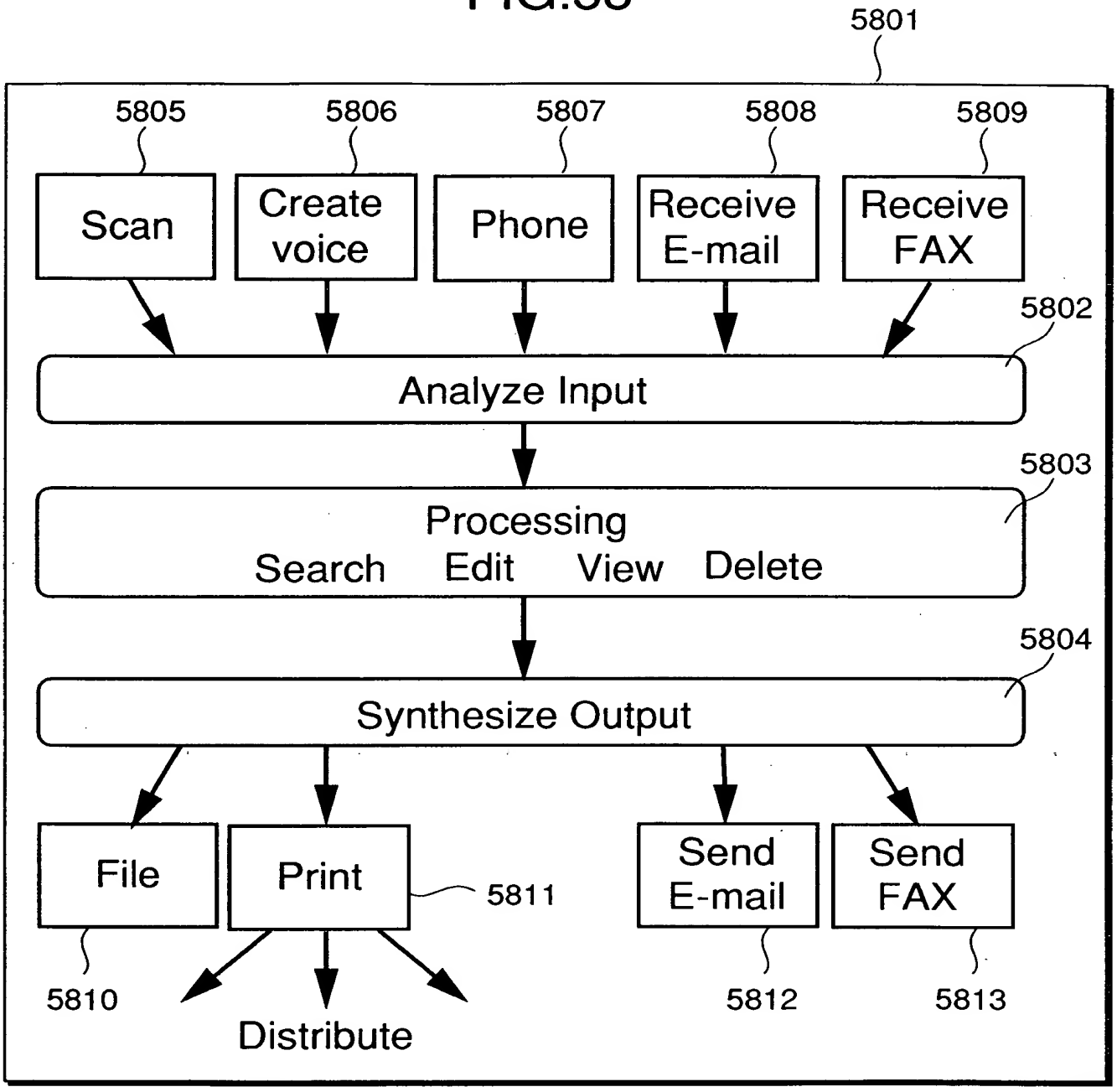
FIG.58



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APPROVED
DRAFTS

FIG.59

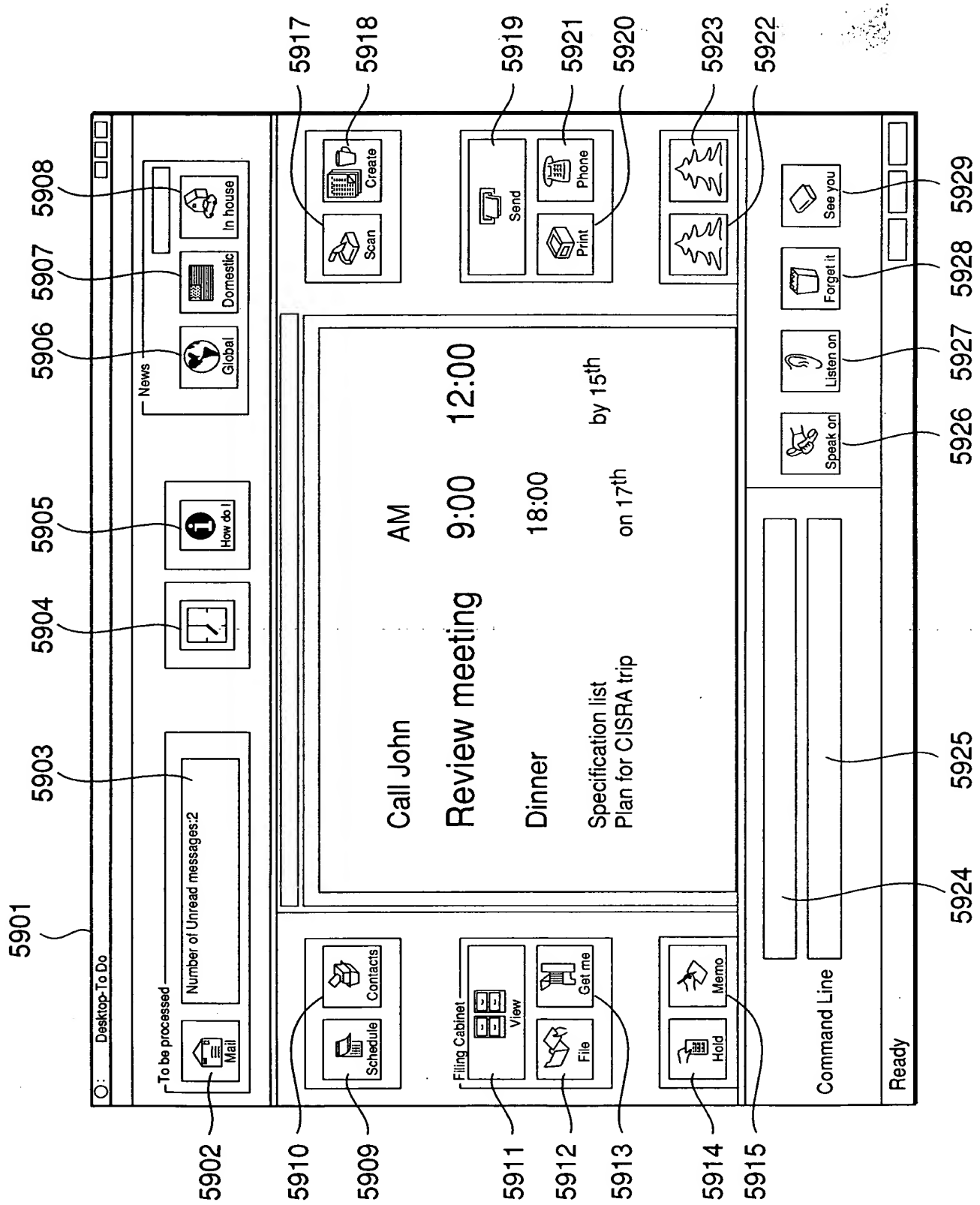
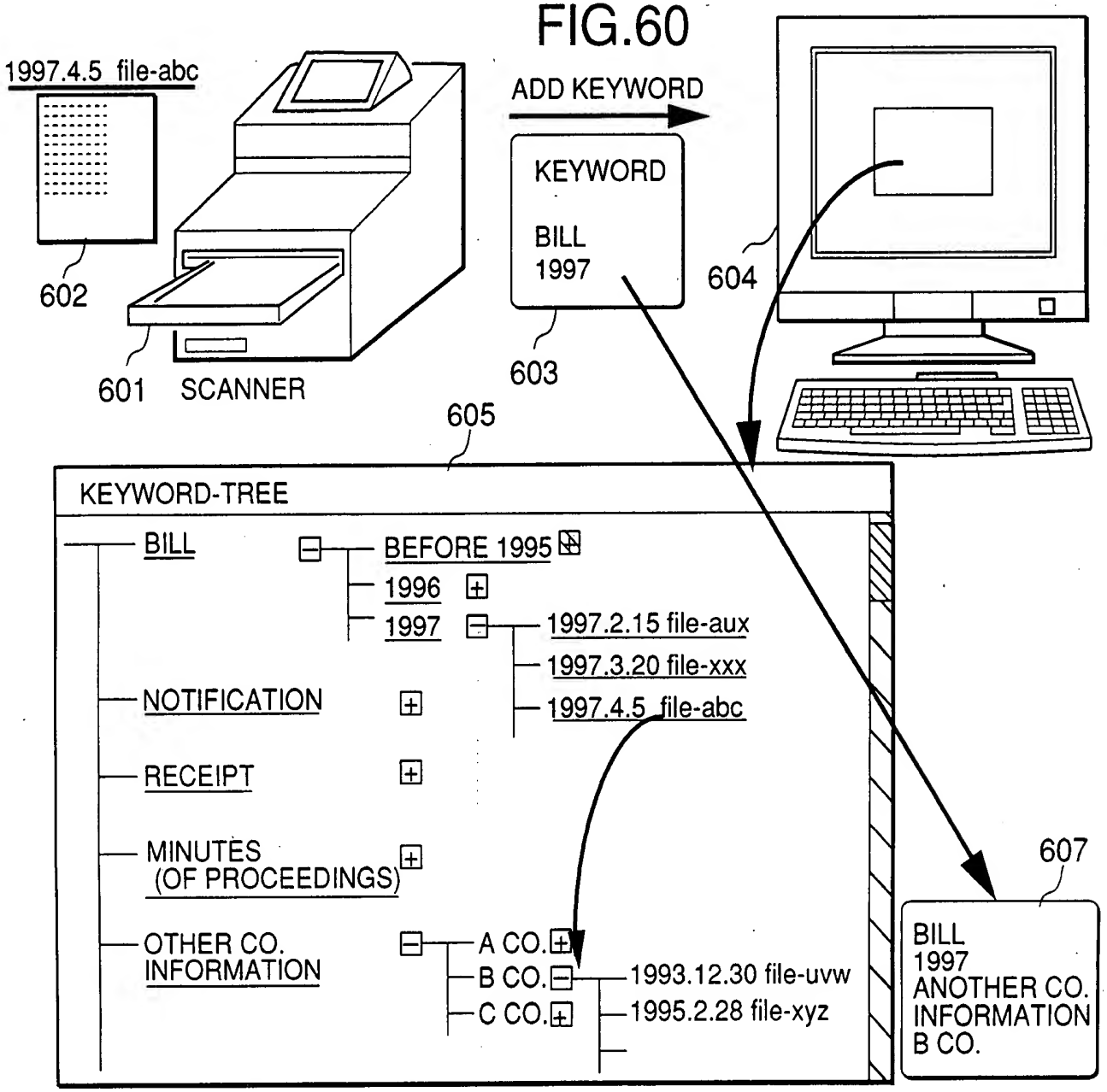


FIG.60


1997.4.5 file-abc
602
601 SCANNER
ADD KEYWORD
KEYWORD
BILL
1997
603
604
605
KEYWORD-TREE
BILL
BEFORE 1995
1996
1997
1997.2.15 file-aux
1997.3.20 file-xxx
1997.4.5 file-abc
NOTIFICATION
RECEIPT
MINUTES (OF PROCEEDINGS)
OTHER CO. INFORMATION
A CO.
B CO.
C CO.
1993.12.30 file-uvw
1995.2.28 file-xyz
607
BILL
1997
ANOTHER CO.
INFORMATION
B CO.

APPROVED

FIG.61

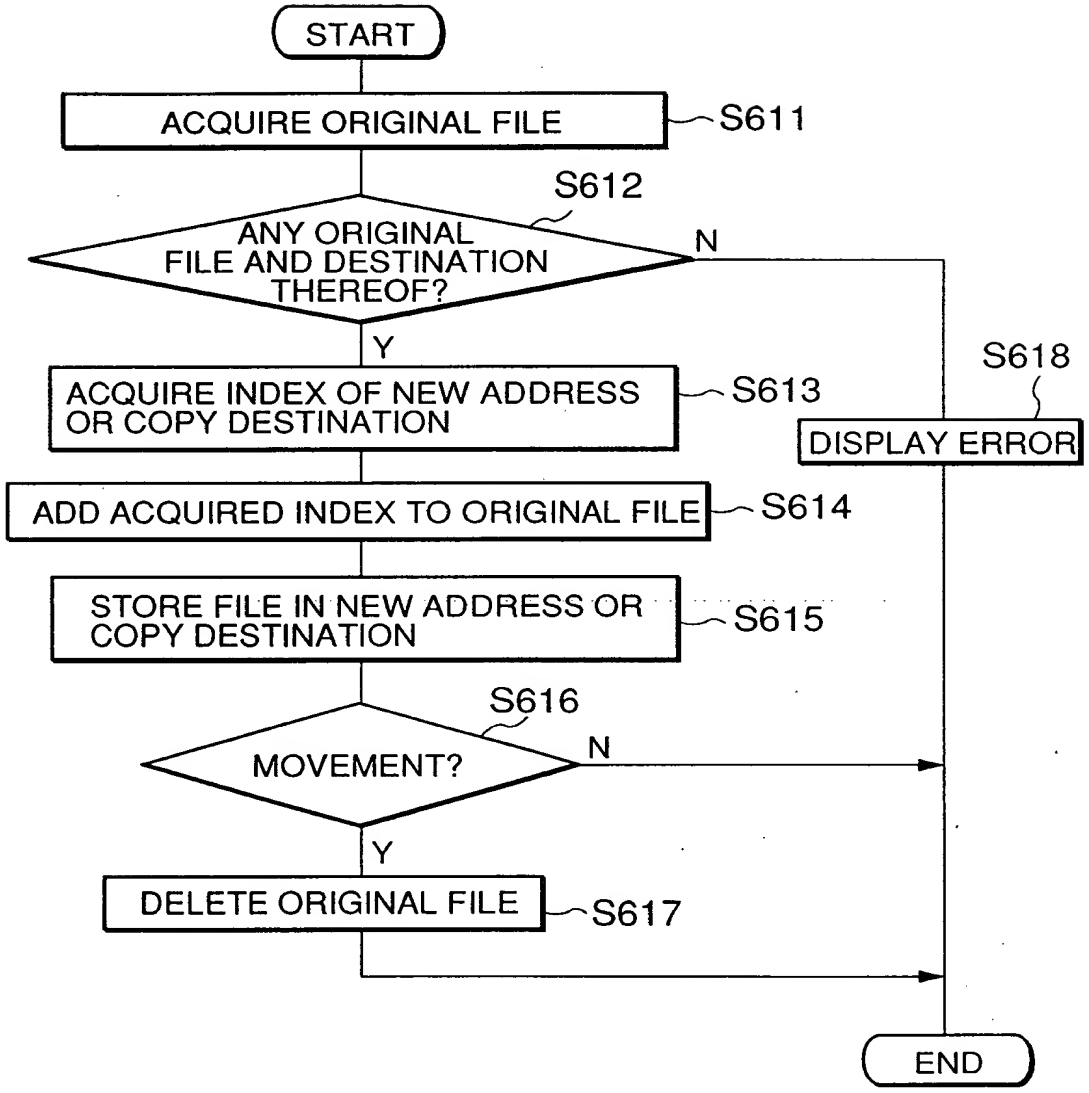
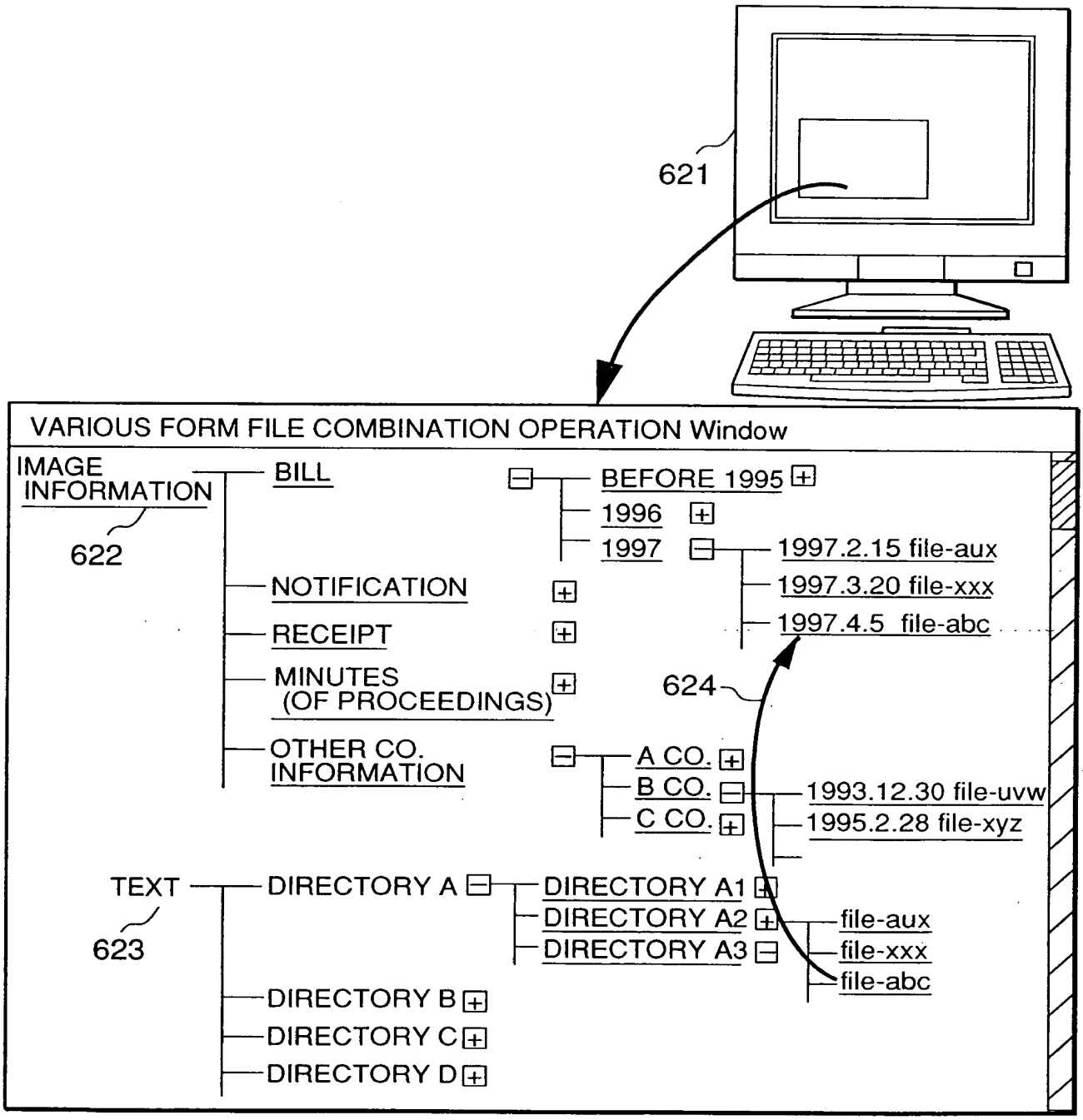


FIG.62


621
VARIOUS FORM FILE COMBINATION OPERATION Window
IMAGE INFORMATION
622
BILL
BEFORE 1995
1996
1997
1997.2.15 file-aux
1997.3.20 file-xxx
1997.4.5 file-abc
NOTIFICATION
RECEIPT
MINUTES (OF PROCEEDINGS)
624
OTHER CO. INFORMATION
A CO.
B CO.
1993.12.30 file-uvw
C CO.
1995.2.28 file-xyz
TEXT
623
DIRECTORY A
DIRECTORY A1
DIRECTORY A2
DIRECTORY A3
file-aux
file-xxx
file-abc
DIRECTORY B
DIRECTORY C
DIRECTORY D

APPROVED
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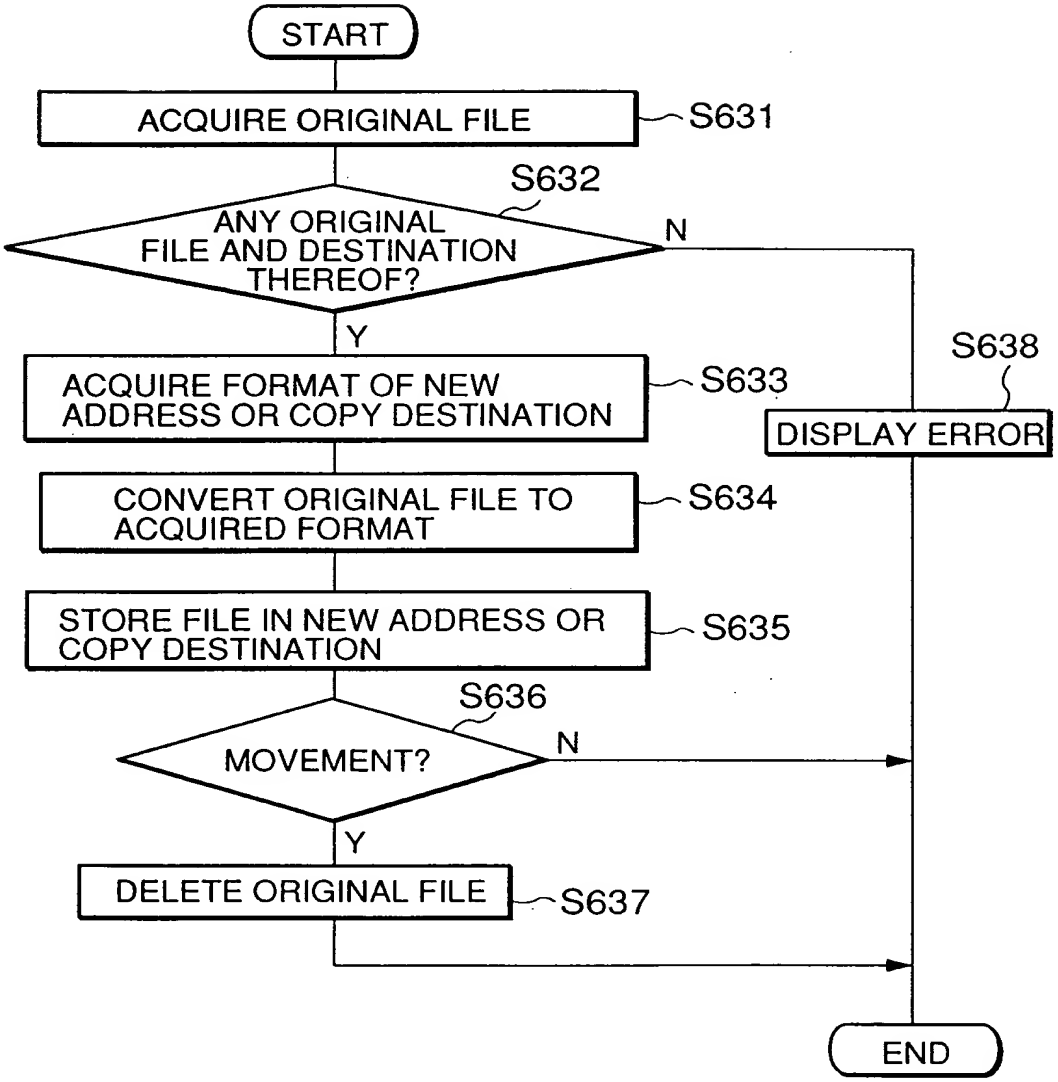
FIG.63



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